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SALUS POPULI SUPREMA LEX ESTO

“The welfare of the people shall be the supreme law.”



JASON KANDER
SECRETARY OF STATE

MISSOURI
REGISTER

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November 1, 2013	December 2, 2013	December 31, 2013	January 30, 2014
November 15, 2013	December 16, 2013	December 31, 2013	January 30, 2014

Documents will be accepted for filing on all regular workdays from 8:00 a.m. until 5:00 p.m. We encourage early filings to facilitate the timely publication of the *Missouri Register*. Orders of Rulemaking appearing in the *Missouri Register* will be published in the *Code of State Regulations* and become effective as listed in the chart above. Advance notice of large volume filings will facilitate their timely publication. We reserve the right to change the schedule due to special circumstances. Please check the latest publication to verify that no changes have been made in this schedule. To review the entire year's schedule, please check out the website at <http://www.sos.mo.gov/adrules/pubsched.asp>

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HOW TO CITE RULES AND RSMo

RULES—Cite material in the *Missouri Register* by volume and page number, for example, Vol. 28, *Missouri Register*, page 27. The approved short form of citation is 28 MoReg 27.

The rules are codified in the *Code of State Regulations* in this system—

Title	Code of State Regulations	Division	Chapter	Rule
1	CSR	10-	1.	010
Department		Agency, Division	General area regulated	Specific area regulated

They are properly cited by using the full citation , i.e., 1 CSR 10-1.010.

Each department of state government is assigned a title. Each agency or division within the department is assigned a division number. The agency then groups its rules into general subject matter areas called chapters and specific areas called rules. Within a rule, the first breakdown is called a section and is designated as (1). Subsection is (A) with further breakdown into paragraph 1., subparagraph A., part (I), subpart (a), item I. and subitem a.

RSMo—The most recent version of the statute containing the section number and the date.

The Secretary of State shall publish all executive orders beginning January 1, 2003, pursuant to section 536.035.2, RSMo Supp. 2012.

EXECUTIVE ORDER 13-09

WHEREAS, Section 105.454(5), RSMo, requires the Governor to designate those members of his staff who have supervisory authority over each department, division or agency of the state government.

NOW THEREFORE, I, JEREMIAH W. (JAY) NIXON, GOVERNOR OF THE STATE OF MISSOURI, by virtue of the authority vested in me by the Constitution and laws of the State of Missouri, do hereby designate the following members of my staff as having supervisory authority over the following departments, divisions or agencies:

Office of Administration	Kristy Manning
Department of Agriculture	Michael Barrett
Department of Conservation	Peter Lyskowski
Department of Corrections	Edward R. Ardini, Jr.
Department of Economic Development	Chris Pieper
Department of Elementary and Secondary Education	Mike Nietzel
Department of Health and Senior Services	Peter Lyskowski
Department of Higher Education	Mike Nietzel
Department of Insurance, Financial Institutions and Professional Registration	Chris Pieper
Department of Labor and Industrial Relations	Jeff Harris
Department of Mental Health	Mike Nietzel
Department of Natural Resources	Michael Barrett
Department of Public Safety	Edward R. Ardini, Jr.
Department of Revenue	Peter Lyskowski
Department of Social Services	Mike Nietzel
Department of Transportation	Chris Pieper
Missouri Housing Development Commission	Brian May
Boards Assigned to the Governor	Chris Pieper
Unassigned Boards and Commissions	Chris Pieper



IN WITNESS WHEREOF, I have hereunto set my hand and caused to be affixed the Great Seal of the State of Missouri, in the City of Jefferson, on this 3rd day of May, 2013.

A handwritten signature in black ink, appearing to read "Jay Nixon", written over a horizontal line.

Jeremiah W. (Jay) Nixon
Governor

ATTEST:

A handwritten signature in black ink, appearing to read "Jason Kander", written over a horizontal line.

Jason Kander
Secretary of State

Under this heading will appear the text of proposed rules and changes. The notice of proposed rulemaking is required to contain an explanation of any new rule or any change in an existing rule and the reasons therefor. This is set out in the Purpose section with each rule. Also required is a citation to the legal authority to make rules. This appears following the text of the rule, after the word "Authority."

Entirely new rules are printed without any special symbolology under the heading of proposed rule. If an existing rule is to be amended or rescinded, it will have a heading of proposed amendment or proposed rescission. Rules which are proposed to be amended will have new matter printed in boldface type and matter to be deleted placed in brackets.

An important function of the *Missouri Register* is to solicit and encourage public participation in the rulemaking process. The law provides that for every proposed rule, amendment, or rescission there must be a notice that anyone may comment on the proposed action. This comment may take different forms.

If an agency is required by statute to hold a public hearing before making any new rules, then a Notice of Public Hearing will appear following the text of the rule. Hearing dates must be at least thirty (30) days after publication of the notice in the *Missouri Register*. If no hearing is planned or required, the agency must give a Notice to Submit Comments. This allows anyone to file statements in support of or in opposition to the proposed action with the agency within a specified time, no less than thirty (30) days after publication of the notice in the *Missouri Register*.

An agency may hold a public hearing on a rule even though not required by law to hold one. If an agency allows comments to be received following the hearing date, the close of comments date will be used as the beginning day in the ninety- (90-) day-count necessary for the filing of the order of rulemaking.

If an agency decides to hold a public hearing after planning not to, it must withdraw the earlier notice and file a new notice of proposed rulemaking and schedule a hearing for a date not less than thirty (30) days from the date of publication of the new notice.

Proposed Amendment Text Reminder:

Boldface text indicates new matter.

[Bracketed text indicates matter being deleted.]

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 265—Division of Motor Carrier and Railroad Safety

Chapter 2—Practice and Procedure

PROPOSED AMENDMENT

[4 CSR 265-2.068] 7 CSR 265-10.035 Application for a Self-Insurer Status

This rule is being moved to another department as well as being amended. The proposed amendment which also moves the rule can be found under the new rule number (7 CSR 265-10.035) in this issue of the Missouri Register. If you currently follow this rule through email notification you will need to update your selections by including the new rule number in your email notification selections.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 265—Division of Motor Carrier and Railroad Safety

Chapter 2—Practice and Procedure

PROPOSED AMENDMENT

[4 CSR 265-2.180] 7 CSR 265-10.140 Discontinuance of Service; Suspension and Revocation of Certificates and Permits

This rule is being moved to another department as well as being amended. The proposed amendment which also moves the rule can be found under the new rule number (7 CSR 265-10.040) in this issue of the Missouri Register. If you currently follow this rule through email notification you will need to update your selections by including the new rule number in your email notification selections.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 265—Division of Motor Carrier and Railroad Safety

Chapter 2—Practice and Procedure

PROPOSED AMENDMENT

[4 CSR 265-2.190] 7 CSR 265-10.090 Merger of Duplicated or Overlapping Motor Carrier Operating Authority

This rule is being moved to another department as well as being amended. The proposed amendment which also moves the rule can be found under the new rule number (7 CSR 265-10.090) in this issue of the Missouri Register. If you currently follow this rule through email notification you will need to update your selections by including the new rule number in your email notification selections.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 265—Division of Motor Carrier and Railroad Safety

Chapter 6—Transportation

PROPOSED AMENDMENT

[4 CSR 265-6.010] 7 CSR 265-10.055 Passenger Tariffs

This rule is being moved to another department as well as being amended. The proposed amendment which also moves the rule can be found under the new rule number (7 CSR 265-10.055) in this issue of the Missouri Register. If you currently follow this rule through email notification you will need to update your selections by including the new rule number in your email notification selections.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 265—Division of Motor Carrier and Railroad Safety

Chapter 12—Motor Carriers

PROPOSED RESCISSION

4 CSR 265-12.020 Uniform Systems of Accounts for Class B Motor Carriers of Household Goods and Passengers. This rule

prescribed uniform systems of accounts for Class B common motor carriers of household goods and passengers.

PURPOSE: *This rule is being rescinded. The passage of Senate Bill 470 and House Bill 1402 signed by the governor effective August 28, 2012 vacated and set aside previous rate orders of the Highways and Transportation Commission or its predecessors that established or prescribed any minimum, maximum, or minimum-and-maximum rates for the transportation of household goods by common carriers in intrastate commerce. The Highways and Transportation Commission or its predecessors do not have any prescribed rates and charges in place for motor carriers transporting passengers for other than charter service in intrastate commerce. Uniform systems of accounts were established to require standard data retention for the sole purpose of determining an adequate rate of return in order to prescribe the level of rates and charges for the use of carriers' assets for public service. With the absence of any rates and charges being prescribed by the commission, this rule is no longer needed and should be rescinded.*

AUTHORITY: section 622.027, RSMo 1994. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Jan. 1, 1986. For intervening history, please consult the *Code of State Regulations*. Rescinded: Filed May 2, 2013.

PUBLIC COST: *This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

PRIVATE COST: *This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

NOTICE TO SUBMIT COMMENTS: *Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.*

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT

Division 265—Division of Motor Carrier and Railroad Safety Chapter 12—Motor Carriers

PROPOSED RESCISSION

4 CSR 265-12.030 Uniform System of Accounts for Class I Motor Carriers of Passengers. This rule prescribed uniform systems of accounts for Class I common motor carriers of passengers.

PURPOSE: *This rule is being rescinded. The Highways and Transportation Commission or its predecessors do not prescribe rates and charges for motor carriers transporting passengers other than charter service in intrastate commerce. Uniform systems of accounts were established to require standard data retention for the sole purpose of determining an adequate rate of return in order to prescribe the level of rates and charges for the use of carriers' assets for public service. With the absence of any rates and charges being prescribed by the commission, this rule is no longer needed and should be rescinded.*

AUTHORITY: section 622.027, RSMo 1994. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Jan. 1, 1986. For inter-

vening history, please consult the *Code of State Regulations*. Rescinded: Filed May 2, 2013.

PUBLIC COST: *This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

PRIVATE COST: *This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

NOTICE TO SUBMIT COMMENTS: *Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.*

Title 7—DEPARTMENT OF TRANSPORTATION Division 265—Motor Carrier and Railroad Safety Chapter 10—Motor Carrier Operations

PROPOSED AMENDMENT

7 CSR 265-10.010 Definitions. The Missouri Highways and Transportation Commission is deleting section (1) and amending section (2).

PURPOSE: *This amendment modifies and adds definitions for terms used in Chapters 4 CSR 265-2 and 7 CSR 265-10, and Chapters 386, 387, and 390, RSMo.*

[(1) Unless otherwise specifically provided, or unless the context clearly indicates otherwise, the provisions of 4 CSR 265-2.010 defining words and terms shall apply to and determine the meaning of all those words and terms as used in this chapter, and in Chapters 386, 387 and 390, RSMo.]

[(2)](1) As used in this chapter[,], in 4 CSR 265-2; and in Chapters 386, 387, and 390, RSMo, unless the context clearly requires otherwise, the following words and terms mean:

(A) Civil subdivision means a political subdivision, public corporation, or quasi-corporation, or public governmental entity, which is established by law exclusively for public purposes. The term includes every county, township, municipality, incorporated town and village; public school district; road district; library district; drainage; sewer or levee district; fire district; county sports complex authority; special taxing district for public works or public improvements; soil and water conservation district; watershed subdistrict; board of control of a public art museum; other public boards, commissions and districts established by law, and their officers, agents, and employees acting within the lawful scope of their official duties. The taxing power is not a prerequisite to being a civil subdivision, but possession of lawful taxing power creates a presumption that the possessor is a civil subdivision;

(B) Commission means the Missouri Highways and Transportation Commission.

[(B)](C) Contract carrier means a person who engages in the transportation of passengers or property by motor vehicle upon the public highways for hire or compensation under individual, continuing contracts, or agreements. Contracts for the transportation of passengers or household goods shall meet [the following requirements:

1. The contract shall impose material bilateral obligations upon both the shipper and the carrier;

2. Under every contract or agreement for intrastate transportation service as a contract carrier, the carrier must

provide some consideration beyond that which is required by law of a common carrier, such as dedicating specific equipment to the exclusive use of a shipper, or providing specialized equipment or services designed to meet the unique needs of the shipper;

3. The contract or agreement must specify the shipper's obligation to the contract carrier in terms of the quantity of service to be rendered, such as by the number of loads or tonnage of freight to be tendered to the carrier, which must be more than merely a nominal quantity, in order to distinguish the relationship from the unilateral agreement between a shipper and a common carrier. The quantity of service also may be stated in terms which require exclusive dealings between the contracting parties, or commit the shipper to tender all his/her output to the carrier, or commit the carrier to meet the entire transportation requirements of the shipper;

4. The contract or agreement for the transportation of passengers or household goods must either state an expiration date, or provide for cancellation by either party after not less than thirty (30) days' notice to the other contracting party and to the division;

5. The contract or agreement also must include either a statement of the rates to be charged, or a specific provision which incorporates by reference a schedule of rates, in writing, to be effective between the carrier and shipper.] the requirements as in Chapters 387 and 390, RSMo. The initial contract(s) for the transportation of passengers shall be filed with the commission along with the application for authority.

AUTHORITY: section 622.027, RSMo [1994] 2000. This rule originally filed as 4 CSR 265-10.010. Original rule filed Nov. 4, 1992, effective July 8, 1993. For intervening history, please consult the *Code of State Regulations*. Amended: Filed May 2, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

Title 7—DEPARTMENT OF TRANSPORTATION Division 265—Motor Carrier and Railroad Safety Chapter 10—Motor Carrier Operations

PROPOSED RESCISSION

7 CSR 265-10.015 General Application Requirements for the Issuance and Transfer of Intrastate Motor Carrier Certificates, Permits and Temporary Authority. This rule set forth the requirements that applications to the commission requesting an intrastate motor carrier certificate or permit must meet.

PURPOSE: This rule is being rescinded in order to amend the entire rule to reflect changes in application requirements for an intrastate motor carrier certificate, permit, or property carrier registration.

AUTHORITY: section 622.027, RSMo 2000 and section 226.008, RSMo Supp. 2012. This rule originally filed as 4 CSR 265-2.060.

Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the *Code of State Regulations*. Rescinded: Filed May 2, 2013.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

Title 7—DEPARTMENT OF TRANSPORTATION Division 265—Motor Carrier and Railroad Safety Chapter 10—Motor Carrier Operations

PROPOSED RULE

7 CSR 265-10.015 Application Requirements for the Issuance and Transfer of Intrastate Motor Carrier Authority

PURPOSE: This proposed rule sets forth the requirements that applications to the commission requesting an intrastate motor carrier certificate, permit, or property carrier registration must meet.

(1) Applicability. Every application for the issuance or transfer of a common carrier certificate under section 390.051, RSMo, a contract carrier permit under section 390.061, RSMo, or both; the issuance of temporary authority under section 390.081, RSMo; or a property carrier registration under Chapter 622, RSMo, which authorizes the transportation of passengers or property on the public highways in Missouri intrastate commerce shall be filed in conformity with the requirements of this rule and other rules of the commission whenever applicable.

(2) Application Form. The applicant, or an authorized representative of the applicant under oath or penalty of perjury shall complete, verify, and file an application using a form approved by the commission or the filing of required information through the commission's secured motor carrier web system.

(3) Required Documentation. The commission shall not consider for final determination the request of the applicant until the commission has received the following required documentation:

(A) Completed application form;

(B) Filing of proof of insurance in accordance with the requirements of section 390.126, RSMo, and commission rules 7 CSR 265-10.030 and 7 CSR 265-10.035;

(C) Payment of vehicle licensing fees in accordance with section 390.136, RSMo, and commission rule 7 CSR 265-10.020;

(D) Confirmation that the applicant is properly registered and in good standing as required by law with the Office of the Missouri Secretary of State;

(E) Filed an approved tariff and time schedule for the transportation of passengers other than in charter service;

(F) A completed form for the issuance of a USDOT number by the commission;

(G) A copy of each executed contract for every contracting party listed in the application; and

(H) Proof of workers' compensation coverage.

(4) Failure to File Required Documentation. If the applicant has failed to file the required documentation as set forth in section (3) of this rule within forty-five (45) days from the date the application has been received by the commission, the applicant will be notified that no further consideration will be taken upon the applicant's pending request for authority.

(5) Findings. The commission shall grant the application if the commission determines from the information filed by the applicant and any other information submitted to the commission that the applicant meets the applicable standards as required in sections 390.051, 390.061, 390.063, 390.081, or Chapter 622, RSMo.

(6) Request Denied. If the commission determines that the information on record concerning the applicant's request for authority does not meet the standards as required by law, the commission shall deny the application by notice to the applicant. The applicant may request in writing a hearing with the Missouri Administrative Hearing Commission to determine the merits of the application and the Administrative Hearing Commission shall make the final determination whether to grant the operating authority requested by the applicant.

(7) The commission shall dismiss on its motion any application for substantially the same common authority that has been previously denied within six (6) months of filing the subsequent application.

(8) Transfers—Commission staff's review of each proposed transfer of a certificate or permit shall include a consideration of how the proposed transfer will affect the transferor's and transferee's other operating authority, if any. In issuing the transfer request, commission staff shall apply the principles of merger with reference to duplicated or overlapping authority as provided in 7 CSR 265-10.090 or to correct spelling, typographical, grammatical, or format errors without altering the substance of the authority. If any objections are timely-filed to the commission concerning the certificate(s) or permit(s) issued and cannot be resolved, the matter will be sent to the Administrative Hearing Commission for a hearing and final determination.

AUTHORITY: section 622.027, RSMo 2000, and section 226.008, RSMo Supp. 2012. This rule originally filed as 4 CSR 265-2.060. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the *Code of State Regulations*. Rescinded and readopted: Filed May 2, 2013.

PUBLIC COST: This proposed rule will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rule will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RESCISSION

7 CSR 265-10.020 Licensing of Vehicles. This rule prescribed the requirements and procedures for the licensing of vehicles operated on public highways in interstate or intrastate commerce within the jurisdiction of the commission.

PURPOSE: This rule is being rescinded in order to amend the entire rule to reflect changes impacting the jurisdiction of the commission to issue certain intrastate regulatory licenses pursuant to the passage of the Unified Carrier Registration Act of 2005 in sections 4301–4308 of Public Law 109-59. This act also eliminated the issuance of a credential via the Single State Registration Program for interstate operations through this state. The proposed rule will also be modified to add the verification of worker's compensation as required by the passage of Senate Bill 470 and House Bill 1402 and was reorganized to provide clarity and easier understanding of the remaining requirements.

AUTHORITY: sections 390.041(1), 390.138 and 622.027, RSMo 2000 and 226.008 and 390.136, RSMo Supp. 2012. This rule originally filed as 4 CSR 265-10.020. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the *Code of State Regulations*. Rescinded: Filed May 2, 2013.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RULE

7 CSR 265-10.020 Licensing of Vehicles

PURPOSE: This proposed rule prescribes the requirements and procedures for the licensing of vehicles operated on public highways in interstate or intrastate commerce within the jurisdiction of the commission.

(1) License Requirement. No motor carrier shall operate any motor vehicle on the public highways in Missouri in intrastate commerce unless information has been received as required on the license application forms as published by the Missouri Highways and Transportation Commission, Motor Carrier Services Division; fees have been paid; and the annual license or seventy-two (72) hour license is carried in the vehicle. The mere presence of a regulatory license, issued by the commission or organization approved by the commission to sell its regulatory licenses on its behalf, on a vehicle does not authorize any person to operate as a motor carrier. Exceptions: Not-for-profit corporations transporting passengers other than charter service and every motor carrier required to comply with the regulatory requirements of the Unified Carrier Registration

(UCR) Agreement promulgated by the Unified Registration Board of Directors are not required to comply with this rule.

(2) Invalid License. Any license which has been altered or changed in any way shall not be valid.

(3) Expiration of Regulatory Licenses. All annual regulatory licenses issued pursuant to this rule shall be effective from January 1 through December 31 of the year for which they are issued, and shall expire at 12:01 A.M. on the first day of January in the next year succeeding the year for which they were issued. Seventy-two (72) hour licenses expire seventy-two (72) hours from the issued time of the license.

(4) Transfer of Regulatory Licenses. If the vehicle is sold during a license year, the commission may reissue without charge, upon request by the transferor, the annual license for any replacement vehicle purchased by the motor carrier. The regulatory license will not be valid for the transferee of the vehicle.

(5) Failure to Purchase an Annual License—The commission may immediately suspend the intrastate authority of the motor carrier in accordance with the commission's applicable procedures for suspension, for failure to purchase an annual license. Any further operation by the motor carrier of any motor vehicle upon the public highways in this state shall be unlawful until compliance with this rule and a reinstatement by the commission has been issued.

AUTHORITY: sections 390.041(1), 390.138, and 622.027, RSMo 2000, and sections 226.008 and 390.136, RSMo Supp. 2012. This rule originally filed as 4 CSR 265-10.020. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the *Code of State Regulations*. Rescinded and readopted: Filed May 2, 2013.

PUBLIC COST: This proposed rule will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rule will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RESCISSION

7 CSR 265-10.025 Marking of Vehicles. This rule, which includes portions of 4 CSR 265-10.020, prescribed the content and manner of markings to be displayed on motor vehicles operated by motor carriers on public highways and interstate or intrastate commerce within the jurisdiction of the division.

PURPOSE: This rule is being rescinded in order to amend the entire rule to prescribe the content and manner of markings to be displayed on motor vehicles operated by motor carriers on public highways in

interstate or intrastate commerce that are under the jurisdiction of the Missouri Highways and Transportation Commission.

AUTHORITY: section 622.027, RSMo 2000. This rule originally filed as 4 CSR 265-10.025. Emergency rule filed Dec. 1, 1994, terminated Dec. 19, 1994. Emergency rule filed Dec. 20, 1994, effective Jan. 1, 1995, expired April 30, 1995. Emergency rule filed April 20, 1995, effective May 1, 1995, expired Aug. 28, 1995. Emergency rule filed Aug. 18, 1995, effective Aug. 29, 1995, expired Feb. 24, 1996. Original rule filed Aug. 3, 1995, effective Feb. 25, 1996. Amended: Filed Aug. 5, 1999, effective March 30, 2000. Moved to 7 CSR 265-10.025, effective July 11, 2002. Rescinded: Filed May 2, 2013.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RULE

7 CSR 265-10.025 Marking of Vehicles

PURPOSE: This proposed rule prescribes the content and manner of markings to be displayed on motor vehicles operated by motor carriers on public highways in interstate or intrastate commerce that are under the jurisdiction of the Missouri Highways and Transportation Commission.

(1) Vehicle Markings. Every motor vehicle operated by a motor carrier in intrastate commerce under any property carrier registration, certificate, or permit issued by the Missouri Highways and Transportation Commission shall be marked in conformity with the requirements of section 390.21 of Title 49, *Code of Federal Regulations* (CFR), or if applicable, subpart D of Title 49, CFR part 390. The commission incorporates by reference in, and makes a part of this rule, the provisions of Title 49, CFR Part 390 as published by the United States Government Printing Office, 732 North Capitol Street NW, Washington DC 20401, on April 1, 2011. This rule does not incorporate any subsequent amendments or additions to 49 CFR Part 390. Exceptions: Motor carriers transporting motor vehicles in driveway or towaway operations may display the markings on both sides or at the rear of a single driven vehicle. Motor carriers transporting a combination of vehicles in driveway or towaway operations may display the prescribed markings on both sides of any one (1) of the units comprising the combination, or at the rear of the rearmost unit of this combination. Motor carriers operating a passenger carrying vehicle having a capacity of twelve (12) passengers or less, excluding the driver, may display on the vehicle's rear bumper, rear window, or otherwise on the rear of the vehicle, the USDOT number assigned to the motor carrier, which shall be marked in readily legible figures not less than two inches (2") in height, which shall contrast sharply in color with the background on which the figures are placed.

(2) If the carrier is engaged in intrastate operations only as authorized by the commission, the carrier is required to include in the vehicle markings the letters "MO" immediately following the carrier's USDOT number.

(3) If an intrastate motor carrier sells, assigns, or otherwise transfers a motor vehicle subject to the provisions of this rule, the seller shall first remove its required markings from the vehicle.

AUTHORITY: section 622.027, RSMo 2000. This rule originally filed as 4 CSR 265-10.025. Emergency rule filed Dec. 1, 1994, terminated Dec. 19, 1994. Emergency rule filed Dec. 20, 1994, effective Jan. 1, 1995, expired April 30, 1995. Emergency rule filed April 20, 1995, effective May 1, 1995, expired Aug. 28, 1995. Emergency rule filed Aug. 18, 1995, effective Aug. 29, 1995, expired Feb. 24, 1996. Original rule filed Aug. 3, 1995, effective Feb. 25, 1996. Amended: Filed Aug. 5, 1999, effective March 30, 2000. Moved to 7 CSR 265-10.025, effective July 11, 2002. Rescinded and readopted: Filed May 2, 2013.

PUBLIC COST: This proposed rule will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rule will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

Title 7—DEPARTMENT OF TRANSPORTATION Division 265—Motor Carrier and Railroad Safety Chapter 10—Motor Carrier Operations

PROPOSED RESCISSION

7 CSR 265-10.030 Insurance. This rule defined and described the procedures, forms, and authorization for filing, canceling, replacing, and reinstating proof of motor carrier insurance or surety bonds, and prescribed the minimum limits of public liability coverage for motor carriers of passengers or property, and minimum limits of cargo liability coverage for household goods carriers.

PURPOSE: This rule is being rescinded in order to amend the entire rule to reflect changes to define and describe the procedures and authorization for filing, canceling, replacing, and reinstating proof of motor carrier insurance or surety bonds, and prescribes the minimum limits of public liability coverage for motor carriers of passengers or property, and minimum limits of cargo liability coverage for household goods carriers.

AUTHORITY: sections 390.041, 390.126, 390.128, and 622.027, RSMo 2000. This rule originally filed as 4 CSR 265-10.030. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the *Code of State Regulations*. Rescinded: Filed May 2, 2013.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

Title 7—DEPARTMENT OF TRANSPORTATION Division 265—Motor Carrier and Railroad Safety Chapter 10—Motor Carrier Operations

PROPOSED RULE

7 CSR 265-10.030 Insurance

PURPOSE: This proposed rule defines and describes the procedures and authorization for filing, canceling, replacing, and reinstating proof of motor carrier insurance or surety bonds, and prescribes the minimum limits of public liability coverage for motor carriers of passengers or property, and minimum limits of cargo liability coverage for household goods carriers.

(1) Proof of Coverage and Minimum Limits of Public Liability for Intrastate Carriers. Every motor carrier operating any motor vehicle in intrastate commerce by authority of the commission shall at all times have on file with and approved by the commission proof of public liability insurance or bond for the limits of liability as required by the commission. The proof of public liability insurance shall state that the insurer has issued to the motor carrier a policy of insurance which by endorsement provides automobile bodily injury and property damage liability insurance covering the obligations imposed upon the motor carrier by the provisions of the laws of this state. A completed and executed endorsement shall be attached to the public liability insurance policy and form a part of it and amends the insurance policy to which it is attached to assure compliance with this rule by the motor carrier. A true copy of the insurance policy with the endorsement attached shall be maintained at the motor carrier's principal place of business, and produced upon request for inspection by the commission. An executed surety bond may be accepted in lieu of a certificate of public liability insurance.

(2) Filing Proof of Insurance. The insurance company or its authorized underwriter shall file proof of insurance on behalf of a motor carrier using forms approved by the commission or the filing of required information through the commission's secured motor carrier web system. Upon request of the commission, any insurance company that has filed or offers to file proof of insurance shall furnish evidence satisfactory to the commission that the insurance company issuing the policy or bond is duly authorized to transact business in Missouri and to issue the policy offered, and that it is financially able to meet its obligations.

(3) Proof of Coverage of Cargo Liability for Transportation of Household Goods. Each vehicle while transporting household goods in intrastate commerce within this state shall be covered by a surety bond or certificate of cargo insurance filed with and approved by the commission for the limits of liability as established by the commission. A completed and executed endorsement shall be attached to the cargo insurance policy and form a part of it and amend the policy to which it is attached to assure compliance with this rule by the motor carrier. An insurance company or surety shall file separate certificates or bonds, whenever it provides both cargo liability and public liability coverage for a motor carrier of household goods.

(4) Rejection of Proof of Insurance. The commission may reject any document or information filed or offered for filing, or may declare it invalid at any time, and shall notify the motor carrier of the rejection.

(5) Cancellation and Reinstatement of Proof of Insurance. An insurer shall give the commission not less than ten (10) days notice of the cancellation of motor carrier bodily injury and property damage liability insurance certificate or bond or motor carrier cargo insurance certificate or bond, by filing with the commission the required notice of cancellation form. After cancellation in accordance with this section, a new certificate of insurance or surety bond must be filed to reinstate coverage for the motor carrier.

(6) Replacement Coverage. Policies of insurance and surety bonds may be replaced by other policies of insurance or surety bonds. The liability of the retiring insurer or surety shall be considered terminated on the effective date of the replacement policy of insurance or surety bond if accepted by the commission; except that if a cancellation notice under section (5) of this rule is received prior to receipt of the replacement certificate of insurance or surety bond, the liability of the retiring insurer or surety shall be considered as terminated at the end of the required ten (10) day cancellation period.

AUTHORITY: sections 390.041, 390.126, 390.128, and 622.027, RSMo 2000. This rule originally filed as 4 CSR 265-10.030. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the Code of State Regulations. Rescinded and readopted: Filed May 2, 2013.

PUBLIC COST: This proposed rule will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rule will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

Title [4—DEPARTMENT OF ECONOMIC DEVELOPMENT] 7—DEPARTMENT OF TRANSPORTATION

Division 265—[Division of] Motor Carrier and Railroad Safety

Chapter [2—Practice and Procedure] 10—Motor Carrier Operations

PROPOSED AMENDMENT

[4 CSR 265-2.068] 7 CSR 265-10.035 Application for a Self-Insurer Status. The Missouri Highways and Transportation Commission is removing the Editor's Note; amending sections (1), (2), and (3); removing section (4); renumbering section (5); and moving the rule to Title 7 Department of Transportation.

PURPOSE: This proposed amendment updates references and removes sections no longer applicable to obtain self-insurer status.

(1) Motor carriers operating in intrastate commerce *[or interstate commerce exempt from Interstate Commerce Commission (ICC) jurisdiction]* filing an application for authority to become a

self-insurer shall file the original and one (1) copy of the application with the director of the division. Every application shall include a completed Application **For Self-Insurer Status** Form *[MO 419-1797]* and, whenever applicable, shall include completed Exhibits A, B, C, D, and E, as described in the application form. The application may include additional supporting information, which shall not repeat or duplicate the information required in Application **For Self-Insurer Status** Form *[MO 419-1797]* or Exhibits A, B, C, D, and E. Photocopies of the form and exhibits are acceptable, if they are clearly legible.

(2) Except as provided in section (3) *[or (4)]* of this rule, each motor carrier who has been granted authority by this division to be a self-insurer shall file, within sixty (60) days after the close of the previous calendar year, a balance sheet, income statement, and a statement listing any claims filed against the motor carrier which arose out of any accidents the motor carrier was involved in during its operations in the previous calendar year, and any unresolved claims which arose out of accidents during previous years. For each claim listed, the applicant shall state the amount, nature, and status of the claim including whether it is disputed or undisputed and how much of it remains unpaid.

(3) Any carrier whose self-insurance plan has been approved by the *[Interstate Commerce Commission (ICC)]* **Federal Motor Carrier Safety Administration (FMCSA)** shall file with this division—

(A) The *[ICC]* **FMCSA** order approving its self-insurance plan; and

(B) Immediate notice of any proceeding or action by the *[ICC]* **FMCSA** which could result in the suspension, revocation, or termination of its self-insurance plan.

[(4) Applications for self-insurance of interstate motor carrier operations authorized by a certificate or permit issued by the ICC shall be made as required by the Single State Registration System (SSRS) Procedures Manual, which is adopted by the division. Except as otherwise specifically provided in this chapter or 4 CSR 265-10 with reference to operations under ICC authority, the SSRS Procedures Manual shall govern the registration, licensing, proof of insurance coverage and designation of process agents of all vehicles operated in Missouri under ICC authority.]

[(5)](4) Failure of a carrier to comply with the provisions of section (2) or (3) of this rule shall result in revocation of *[this division's]* **the commission's** approval of the carrier's self-insurance plan.

AUTHORITY: section 622.027, RSMo [1994] 2000. This rule originally filed as 4 CSR 265-2.068. Emergency rule filed Aug. 1, 1986, effective Aug. 13, 1986, expired Oct. 23, 1986. Original rule filed July 31, 1986, effective Oct. 27, 1986. For intervening history, please consult the Code of State Regulations. Moved and amended: Filed May 2, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RESCISSION

7 CSR 265-10.040 Motor Vehicle Leasing. This rule prescribed requirements to properly identify leased motor vehicles and drivers when they are operated under authority issued by the commission, to ensure that leased vehicles operated by motor carriers are safely equipped, maintained, and operated, and properly insured and licensed, and to prevent the evasion of motor carrier regulatory requirements through regulating the leasing of motor vehicles under certain circumstances.

PURPOSE: This rule is being rescinded in order to amend the entire rule to prescribe requirements to properly identify leased motor vehicles and drivers when they are operated under authority issued by the commission, to ensure that leased vehicles operated by motor carriers are safely equipped, maintained and operated, and properly insured and licensed, and to prevent the evasion of motor carrier regulatory requirements through regulating the leasing of motor vehicles under certain circumstances.

AUTHORITY: section 622.027, RSMo [1994] 2000. This rule originally filed as 4 CSR 265-10.040. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the Code of State Regulations. Rescinded: Filed May 2, 2013.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RULE

7 CSR 265-10.040 Motor Vehicle Leasing

PURPOSE: This proposed rule prescribes requirements to properly identify leased motor vehicles and drivers when they operate under authority issued by the commission, to ensure that leased vehicles operated by motor carriers are safely equipped, maintained, and operated, and properly insured and licensed, and to prevent the evasion of motor carrier regulatory requirements through regulating the leasing of motor vehicles under certain circumstances.

(1) Definitions.

(A) "Lessee" means the person who received possession and control of the vehicle.

(B) "Lessor" means the vehicle's titled owner or lessee who subleases to another lessee.

(2) Motor carriers shall not transport passengers or property in

intrastate commerce in non-owned motor vehicles unless there is in place an executed lease for each motor vehicle operated by the motor carrier in intrastate commerce which conforms to the following requirements:

(A) The lease must be reduced to writing and executed with one (1) copy retained by the lessee for not less than two (2) years after the expiration of the lease; and one (1) copy shall accompany the driver while the leased vehicle is in operation and available for inspection by any official authorized to enforce the motor vehicle or transportation laws of this state;

(B) The terms of the lease shall identify the lessor and lessee; describe the leased vehicle including the year, make, model, vehicle identification number, license plate number, and licensing state; specify the beginning and ending duration of the lease; specify the payment terms; and provide all the surrounding facts that the leased equipment is exclusively committed to the lessee's use during the term of the lease; and

(C) Except when a vehicle is subleased by a motor carrier in compliance with section (5) of this rule, the lessee shall control all transportation of passengers or property performed in the leased vehicle during the term of the lease and be deemed the sole operator of the motor vehicle unless otherwise agreed upon by the lessee; be responsible for the operation of the vehicle, including its equipment, physical condition, insurance coverage, licensing, markings, drivers, drivers' qualifications, drivers' hours of service, and all other related matters in conformity with the applicable laws of this state and the rules of the commission, to the same extent as if the lessee were the actual owner of the vehicle; immediately upon the termination of the lease or sublease of the vehicle, remove or obliterate all the lessee's markings from the vehicle; and immediately remove the cancelled lease from the vehicle if the lease is cancelled prior to the expiration date.

(3) If the lessee motor carrier knowingly or recklessly fails to control the transportation performed in the leased vehicle, then the transportation is not covered and authorized by the lessee's operating authority and the lessee motor carrier shall be deemed to be procuring, aiding, and abetting any transportation performed in the leased vehicle during the term of the lease.

(4) Motor carriers shall not lease vehicles with or without drivers to shippers or receivers of property or to passengers or chartering groups.

(5) Motor carriers shall not sublease a leased vehicle, with or without driver, unless the lease expressly authorizes the lessee motor carrier to sublease the vehicle to another authorized motor carrier during the lease. The sublease shall not authorize further subleasing of the vehicle to any person. A copy of the sublease and the original lease shall accompany the driver at all times while the vehicle is in operation, and be available for inspection.

(6) Authorized household goods motor carriers may transport household goods in motor vehicles owned or leased by the carrier's agent under an agency agreement in compliance with 7 CSR 265-10.050 and the Household Goods Tariff Circular No. 1-2013.

(7) This rule does not authorize the leasing of any certificate, permit, or operating authority unless the leasing is approved by order of the commission as a transfer of authority under section 390.111, RSMo.

(8) Whenever a person who is not authorized by the commission to engage in intrastate transportation leases its own equipment—

(A) With or without driver, to an authorized intrastate motor carrier and the lease or any motor vehicle operations during the term of the lease do not actually comply with all the requirements of this rule, then those operations are not covered and not authorized by the lessee's operating authority; or

(B) With driver to a shipper, receiver, passenger, or chartering group, the lessor's intrastate transportation under that lease shall be

presumed to result in private carriage by the lessee if the lease and all operations under it, comply with section (2) of this rule and the term of the lease is not less than thirty (30) consecutive days. If a lease or other arrangement between a shipper, receiver, passenger, or chartering group and the owner of a motor vehicle who is not authorized by the commission to engage in intrastate transportation does not comply with these requirements, then the lessor's motor vehicle operations shall not be presumed to be private carriage by the lessee.

AUTHORITY: section 622.027, RSMo 2000. This rule originally filed as 4 CSR 265-10.040. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the *Code of State Regulations*. Rescinded and readopted: Filed May 2, 2013.

PUBLIC COST: This proposed rule will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rule will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED AMENDMENT

7 CSR 265-10.045 Passenger Service Requirement. The Missouri Highways and Transportation Commission is amending sections (1), (2), (3), and (4).

PURPOSE: The proposed amendment prescribes certain service requirements for motor carriers of passengers.

(1) Motor carriers of passengers shall keep all passenger-carrying vehicles in a clean and sanitary condition while in operation[. They] **and** shall provide and maintain adequate restrooms and facilities, or shall stop at locations with [adequate] public restrooms [and facilities] **that are clean and sanitary**, at sufficient intervals and for sufficient periods of time for the reasonable accommodation of passengers. [The restrooms and facilities provided or selected by the carrier shall be clean and well lighted, in a sanitary condition, and reasonably comfortable for the use of the traveling public.]

(2) Each passenger-carrying vehicle operated intrastate over a regular route or between fixed terminals shall have attached to the front of the vehicle a sign, with letters or figures not less than four inches (4") in height, designating the destination of the vehicle. [Vehicles operated other than over a regular route or between fixed terminals shall have no signs, letters or other matter that would be interpreted in any manner as solicitation of passengers or freight for a particular destination or for transportation over a route for which a certificate has been granted for transportation of persons or property over a regular route or between fixed terminals. In no case shall any vehicle have on the windshield, rear windows or windows on either side of the operator any lettering, papers or other matter that obstructs or interferes with the view of the operator.]

(3) [Except as provided in this section, no driver or operator of any motor vehicle used in the transportation of passengers in common carrier operations shall refuse to carry any person offering him/herself at any regular stopping place for carriage who tenders the regular fare to any regular stopping place on the route of the vehicle, or between the terminals, if under the certificate for that route the carrier is allowed to carry passengers to that point, unless at the time of the offer the vehicle is loaded to capacity.] The driver or operator of any motor vehicle may refuse transportation to any person if that person[:]
(A) Is intoxicated, using profane language or behaving in a [boisterous or] disorderly manner;
(B) Affected with a contagious disease;
(C) Presenting an unsanitary condition so as to unduly annoy other passengers; [or]
(D) Aged under six (6) years and unaccompanied by an adult[.];
(E) **Has not paid the regular fare; or**
(F) **Causes the vehicle to exceed its loaded capacity.**

(4) Passenger vehicles used under a certificate or permit authorizing the transportation of passengers and their baggage must be equipped to carry and properly shelter the baggage of the passengers. No carrier shall be bound to accept baggage in excess of fifty (50) pounds per passenger in weight of six (6) cubic feet per passenger in volume. [A motor carrier authorized to transport passengers and their baggage shall issue without charge a baggage check to each passenger offering baggage to be transported and shall transport the baggage from origin to destination of the passenger. The carrier shall attach to the baggage a duplicate of the check given to the passenger on which shall be written or printed the destination of the passenger.]

AUTHORITY: section 622.027, RSMo [1994] 2000. This rule originally filed as 4 CSR 265-10.045. Emergency rule filed Dec. 1, 1994, terminated Dec. 19, 1994. Emergency rule filed Dec. 20, 1994, effective Jan. 1, 1995, expired April 30, 1995. Emergency rule filed April 20, 1995, effective May 1, 1995, expired Aug. 28, 1995. Emergency rule filed Aug. 18, 1995, effective Aug. 29, 1995, expired Feb. 24, 1996. Original rule filed Aug. 3, 1995, effective Feb. 25, 1996. Moved to 7 CSR 265-10.045, effective July 11, 2002. Amended: Filed May 2, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED AMENDMENT

7 CSR 265-10.050 Tariffs, Time Schedules, and Motor Carrier Documentation. The Missouri Highways and Transportation Commission is amending and/or deleting sections (1)–(11) to make sections (1)–(7).

PURPOSE: This proposed amendment prescribes certain requirements for the keeping, application, and interpretation of certain motor carrier documents including tariffs, c.o.d. records, bills of lading, expense or freight bills, manifests, delivery receipts, time schedules, certificates, permits, and claim registers.

(1) **Tariff Publication.** Every common carrier, *[to the extent it is]* authorized by the commission to engage in intrastate transportation of passengers *[or]* other than in charter service shall publish and file with the commission its tariffs specifying its rates and charges. Every common carrier engaged in intrastate transportation of household goods between points in Missouri, shall maintain and publish *[and file with the commission and]* its tariffs specifying its rates and charges. Also, such carriers shall keep for public inspection at each of their terminals, tariffs *[schedules]* specifying their rates and charges and which shall—

[(A) Indicate definitely and clearly the scope of the carrier's authority as granted in the certificate of convenience and necessity issued to the carrier;]

[(B)](A) Conform, *[if filed]* when published by common carriers of household goods to *[rules]* the requirements contained in *[7 CSR 265-10.120 and any tariff schedule not conforming to the rules may be rejected;]* the Household Goods Tariff Circular No. 1-2013, available at www.modot.org/movinginmissouri;

[(C)](B) Conform, if filed upon not less than one (1) day's notice by common carriers of passengers other than in charter service and their baggage, to the rules contained in *[4 CSR 265-6.010 and in any tariff schedule and the tariffs schedules of any common carrier not conforming to the rules, may be rejected]* 7 CSR 265-10.055; and

(C) Any tariff not conforming to the rules, regulations, or rate orders issued by the commission or its predecessors or the applicable tariff circular may be rejected or suspended by the commission and the common carrier shall have thirty (30) days from the date of suspension to request a hearing before the Administrative Hearing Commission.

[(D) Be published and filed, by common carriers of passengers or household goods to specify the initial rates and charges for service under a certificate newly acquired by original grant or transfer, with the commission upon not less than one (1) day's notice. This permission to file and publish tariff, including supplements where otherwise permitted by commission rules, upon less than thirty (30) days' notice is ordered for good cause under section 387.070, RSMo to eliminate needless delays for common carriers in beginning service to the public under newly acquired authority, notwithstanding any provision of 4 CSR 265- 6.010 or 7 CSR 265-10.120 to the contrary.

(2) After the commission has ordered a minimum, maximum or prescribed rate for the transportation of property or passengers, a motor carrier may not lawfully charge for its transportation of property or passengers a rate which is less than the minimum or prescribed rate, or more than the maximum or prescribed rate, unless expressly approved by a later order of the commission, or pursuant to a periodic rate adjustment approved by the commission as provided in section 387.075, RSMo. A carrier may seek the commission's approval by either of the following methods:

(A) By filing and receiving commission approval of an application seeking rate relief in accordance with the provision of section 390.062, RSMo; or

(B) By filing a tariff that proposes the new rate, after which the commission may suspend the tariff and require notice and opportunity for hearing as provided in 387.200, RSMo.

(3) Unless otherwise ordered by the commission, rates and charges for household goods transportation wholly within a municipality or between contiguous municipalities, or wholly within a commercial zone shall not be based on distance rates.

(4) A common carrier of household goods shall collect its lawful freight charges prior to or at the time of the delivery of the shipment(s), on which the charges have accrued. This shall not be construed to prohibit any common carrier from extending credit in connection with rates and charges on freight transported for the United States, or any department, bureau or agency of the United States, or for Missouri, or any department, bureau or agency of Missouri. Upon taking precautions deemed by them to be sufficient to assure payment of the tariff charges within the credit period specified, common carriers of household goods may relinquish possession of freight in advance of the payment of the tariff charges and may extend credit in the amount of the charges to those who undertake to pay them, these persons being called shippers for a period of fifteen (15) days, excluding Saturdays, Sundays and legal holidays. When the freight bill covering a shipment of household goods is presented to the shipper on or before the date of delivery, the credit period shall run from the first twelve o'clock midnight (12:00 a.m.) following delivery of the freight. When the freight bill is not presented to the shipper on or before the date of delivery, the credit period shall run from the first twelve o'clock midnight (12:00 a.m.) following the presentation of the freight bill. Where a common carrier of household goods has relinquished possession of freight and collected the amount of tariff charges presented by it as the total amount of the charges and another freight bill for additional freight charges is presented to the shipper, the carrier may extend credit in the amount of the additional charges for a period of thirty (30) calendar days, to be computed from the first twelve o'clock midnight (12:00 a.m.) following the presentation of the subsequently presented freight bill. Freight bills for all household goods transportation charges shall be presented to the shippers within seven (7) calendar days from the first twelve o'clock midnight (12:00 a.m.) following delivery of the freight. Shippers may elect to have their freight bills presented by means of the United States mail, and, when the mail service is so used, the time of mailing by the carrier shall be deemed to be the time of presentation of the bills. The mailing by the shipper of valid checks, drafts or money orders, which are satisfactory to the carrier, in payment of freight charges within the credit period allowed the shipper may be deemed to be the collection of the tariff rates and charges within the credit period for the purpose of this rule. In case of dispute as to any time of mailing, the postmark shall be accepted as showing the time.

(5) The following shall apply to the handling of cash on delivery (C.O.D.) shipments of household goods:

(A) This section applies to the transportation by motor vehicle of C.O.D. shipments by all common carriers of household goods except transportation which is auxiliary to or supplemental of transportation by railroad and performed on railroad bills of lading;

(B) No common carrier of household goods shall render any C.O.D. service unless the carrier has published posted and filed tariffs which contain the rates, charges and rules governing that service, which rules shall conform to these regulations;

(C) Every common carrier of household goods shall remit each C.O.D. collection directly to the consignor or other person designated by the consignor as payee promptly and

within ten (10) days after delivery of the C.O.D. shipment to the consignee. If the C.O.D. shipment moved in interline service, the delivering carrier, at the time of remittance of C.O.D. collections to the consignor or payee, shall notify the originating carrier of the remittance; and

(D) Every common carrier handling C.O.D. shipments of household goods as a delivery carrier shall maintain a record of all C.O.D. shipments received for delivery in a manner and form as plainly and readily will show the following information with respect to each shipment:

1. Number and date of freight bill;
2. Name and address of shipper or other person designated as payee;
3. Name and address of consignee;
4. Date shipment delivered;
5. Amount of C.O.D.;
6. Date collected by delivering carrier;
7. Date remitted to payee; and
8. Check number or other identification of remittance to payee.

(6) An invoice or billing statement shall be issued for each shipment of household goods transported by a common carrier. No specific form is prescribed, but this bill when presented to consignee and to consignor when charges are prepaid shall include within its written or printed terms the following information with respect to the covered shipment:

- (A) Name of shipper and point of origin;
- (B) Name of consignee and destination;
- (C) Date of shipment;
- (D) An adequate description of property transported;
- (E) Weight of the shipment, if applicable;
- (F) Rate(s) charged for the service;
- (G) Any other charge incident to the transportation and sufficient information in connection with the charge to enable verification of the accuracy of that charge; and
- (H) Name of transfer point(s) and name or initial of each carrier participating in the haul when transportation is performed jointly by two (2) or more carriers.]

[(7)](2) **Expense Bill Information.** Every common motor carrier of passengers providing intrastate charter service shall issue an expense bill for each chartering group's trip, containing the [following] information **required by the commission**[:].

- [(A)] Serial number, consisting of one (1) of a series of consecutive whole numbers assigned in advance and imprinted on the bill;
- (B) Name of carrier;
- (C) Name of the chartering group for which transportation is performed and, if different, the payer for the transportation service;
- (D) Date(s) transportation is performed;
- (E) Origin, destination and general routing of trip;
- (F) Identification and seating capacity of each vehicle used;
- (G) Name of each driver transporting the group;
- (H) Mileage upon which charges are based, including any deadhead mileage, separately noted; and
- (I) The total and itemized rates and charges for the transportation, and any other charges incidental to the transportation.]

[(8)] Except as otherwise provided in this rule, the driver of each vehicle operated by any common carrier of household goods shall have possession, for inspection upon demand by any law enforcement officer or authorized inspector, of a bill of lading as required under 7 CSR 265-10.080(3) for each

shipment of household goods being transported listing all shipments of household goods on the vehicle.]

[(9)](3) **Record Retention.** A copy of all expense bills, delivery receipts, and any other shipping records or passenger trip records issued by a motor carrier subject to the commission's jurisdiction[, with reference to transportation by motor vehicles within Missouri,] shall be kept on file in the Missouri office of the carrier issuing the shipping records for not less than two (2) years after the date of issuance [of the shipping records]. Each common carrier of passengers in charter service shall maintain a complete file of consecutively numbered expense bills for inspection and audit by the commission.

[(10)](4) **Time Schedules.** Every regular route common carrier of passengers **other than in charter service** shall publish, post, and file time schedules in [accordance with] the [following:] **format and with the required information as determined by the commission.**

[(A)] Time schedules shall be printed or typewritten on good quality paper size eight and one-half by eleven inches (8 1/2" × 11");

(B) The title page must be made up as follows:

1. Time schedules must be numbered consecutively beginning with number one (1) and must show the number of the time schedule, if any, cancelled thereby. The number shall be shown in the upper right-hand corner;
 2. Name of the passenger carrier;
 3. The terminals or points between which the time schedule applies briefly stated;
 4. Date issued and date effective; and
 5. The name, title and address of the official issuing the time schedule, including street address;
- (C) The time schedule must show—

1. The time of arrival at and departure from all terminals and the time of departure from intermediate points between terminals;
2. The distance between all points shown in the time schedule; and
3. Points at which vehicles do not regularly stop, except on signal or under other conditions, with proper indication of service rendered at that point. Regular rest stops must also be indicated;

(D) Two (2) copies of all time schedules shall be filed with the commission; one (1) copy shall be posted in a conspicuous place at each station or stopping place affected; and one (1) copy shall be in the possession of the driver operating the vehicle;

(E) All time schedules shall be filed with the commission and shall be posted at each station or stopping place as required by subsection (10)(D), at least fifteen (15) days before the date upon which they are to become effective, unless otherwise authorized by the commission. In case of actual emergency or for other good cause shown, the commission may permit a time schedule to be filed and posted on less than fifteen (15) days' notice, in which case the time schedule must show on its title page, directly under the effective date, the number and date of the special authority or order of the commission permitting the short notice filing and posting; and

(F) Time schedules received for filing too late to give the commission fifteen (15) days' notice or a shorter notice as may otherwise be authorized, or which do not refer to the number and date of the special authority or order for the short notice, will not be accepted for filing.]

[(11)] Where a motor carrier of household goods is authorized to serve a city, town, municipality or village in regular route

service, the authority shall include the commercial zone of the city, town, municipality or village subject to the following—

(A) Where a motor carrier of household goods is authorized to serve an unincorporated community as a regular route point, those points shall include the area within two (2) miles of the point;

(B) Where a motor carrier of household goods is authorized to serve regular route points designated as specific businesses, such as a grocery, filling station, cafe, or the like, plant or industrial site, highway intersections, these limited grants do not imply a commercial zone;

(C) A grant of irregular route authority to a motor carrier does not include any authority to serve any point located outside the geographic scope of that irregular route as described in the carrier's certificate or permit. A carrier is not authorized to serve any point outside the described irregular route merely because that point is within a city, town, municipality, village, commercial zone, unincorporated community or surrounding area which includes other points that are located within the described irregular route; and

(D) A grant of irregular route authority to transport household goods wholly within a commercial zone does not authorize the carrier to operate anywhere outside the boundary of that commercial zone.]

[(12)](5) **Deviation of Service Route.** Where a highway over which a motor carrier of passengers **other than in charter service** is authorized to operate in regular route service is temporarily obstructed or rendered unsafe by flood, slides, or other causes over which the carrier has no control or which highway or bridges on that highway are subject to weight restrictions by proper authority, the carrier may deviate from its designated route to the extent necessary to avoid the obstruction or restriction, but shall not provide service to, from, or between any points which it is not otherwise authorized to serve.

[(13)](6) **Regulation Presumed.** All intrastate transportation provided for hire by a motor carrier who is subject to the jurisdiction of the commission under Chapter 390, RSMo, shall be presumed to be transportation subject to the commission's jurisdiction, except when the carrier has removed or covered up all vehicle markings which display the number of the motor carrier's certificate or permit on each vehicle while being used for exempt transportation. This requirement is deemed to be reasonably necessary to distinguish exempt activities from regulated transportation activities pursuant to the carrier's certificate or permit.

[(14)](7) **Claims.** Every motor [common] carrier who receives a written claim for loss or damage to passengers or baggage transported by it shall acknowledge receipt of that claim, in writing, to the claimant within thirty (30) calendar days after the carrier receives the written claim. The carrier, at the time the claim is received, shall cause the date of receipt to be recorded on the claim and shall maintain a claim register. The carrier, within one hundred twenty (120) days after the receipt of the claim, shall tender payment, decline payment, or make a firm compromise settlement offer in writing to the claimant.

AUTHORITY: section 622.027, RSMo 2000. This rule originally filed as 4 CSR 265-10.050. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the **Code of State Regulations**. Amended: Filed May 2, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the **Missouri Register**. No public hearing is scheduled.

Title [4—DEPARTMENT OF ECONOMIC DEVELOPMENT] 7—DEPARTMENT OF TRANSPORTATION

Division 265—[Division of] Motor Carrier and Railroad Safety

Chapter [6—Transportation] 10—Motor Carrier Operations

PROPOSED AMENDMENT

[4 CSR 265-6.010] 7 CSR 265-10.055 **Passenger Tariffs.** The Missouri Highways and Transportation Commission is updating references to the commission and FMCSA, amending sections (1) and (3), and moving the rule to Title 7 Department of Transportation.

PURPOSE: This proposed amendment prescribes the form and governs the construction and filing of passenger tariffs of railroad corporations, street railroad corporations, motor carriers, and contract haulers.

(1) The division adopts "General Order No. 35" of the Missouri Public Service Commission, also known as Circular No. 43, prescribing the form and governing the construction and filing of passenger fare schedules by all common carriers which became effective September 1, 1941. Subject to sections (3) and (4), every motor carrier under the jurisdiction of the [Division of Transportation] **commission** is directed to file with the division and print and keep open for public inspection in every station or office in this state where passengers are received for transportation, schedules showing the rates, fares, and charges for the transportation of persons within this state.

(3) The division has interpreted the provisions of Section 211, Title II, of the Trucking Industry Regulatory Reform Act of 1994 (H.R. 2178, 103d Congress, 2d Session) (49 U.S.C. section 10936) as preempting the requirements of state laws and regulations relating to intrastate fares for the transportation of passengers by bus, by an interstate motor carrier of passengers over a route authorized by the [Interstate Commerce Commission (ICC)] **Federal Motor Carrier Safety Administration (FMCSA)**. Because of this federal preemption, the division will no longer require the filing of rate tariffs for the transportation of passengers in Missouri intrastate commerce by [ICC] **FMCSA**-authorized interstate bus operators, over routes authorized by the [ICC] **FMCSA**. This preemption of intrastate rate and tariff requirements for these carriers does not relieve any carrier from the requirements of obtaining intrastate operating authority under 49 U.S.C. section 10922(c)(2) and section 390.051.1., et seq., RSMo.

AUTHORITY: section 622.027, RSMo [(1994)] 2000. This rule originally filed as 4 CSR 265-6.010. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the **Code of State Regulations**. Moved and amended: Filed May 2, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RESCISSION

7 CSR 265-10.060 Inspection of Books, Records, Property, Equipment, and Roadside Stops by Division Personnel. This rule implemented the provisions of sections 386.320 and 390.150.4, RSMo, which subject the books, records, documents, papers, property, equipment, buildings, and offices of persons and corporations regulated by the division to inspection by the division's representatives at any time, and the provisions of sections 304.022 and 390.045, RSMo, which authorize the division's enforcement personnel to stop commercial motor vehicles and obtain information to determine whether the vehicle is operated in violation of Chapter 390, RSMo, or the division's rules.

PURPOSE: This rule is being rescinded. The requirements specified within this rule do not provide the Missouri Highways and Transportation Commission with any additional authority or clarity beyond what is spelled out in current statutes.

AUTHORITY: section 622.027, RSMo [1994] 2000. This rule was previously filed as 4 CSR 265-10.055 and 4 CSR 265-10.060. Original rule filed May 17, 1989, effective Sept. 11, 1989. For intervening history, please consult the Code of State Regulations. Rescinded: Filed May 2, 2013.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RESCISSION

7 CSR 265-10.070 Classification of Common Carriers by Services Performed. Except as preempted by Section 601 of the Federal Aviation Administration Authorization Act of 1994 (H.R. 2379, 103d Congress, 2d Session)(49 U.S.C. sections 11501(h) and 41713(b)), the Division of Transportation had authority to establish just and rea-

sonable classifications of types of carriers included in the terms common carriers or contract carriers as the special nature of the service performed by the carriers shall require. This rule established and defined the service authorized for these classifications of carriers.

PURPOSE: This rule is being rescinded. The requirements specified within this rule do not provide the Missouri Highways and Transportation Commission with any additional authority or clarity beyond what is spelled out in current statutes or by agency policy.

AUTHORITY: section 622.027, RSMo [1994] 2000. This rule was previously filed as 4 CSR 265-10.060 and 4 CSR 265-10.070. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the Code of State Regulations. Rescinded: Filed May 2, 2013.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RESCISSION

7 CSR 265-10.080 Rules Governing the Transportation of Household Goods. The Missouri Highways and Transportation Commission had authority to establish rules concerning motor carrier operations. This rule set forth definitions of terms used by that segment of the motor carrier industry which transports household goods, requires the distribution of an informational pamphlet, provides for the preparation of inventories, sets forth the requirements of a bill of lading, establishes guidelines for delivery when actual charges exceed estimated charges, establishes guidelines for handling claims for loss or damage to property, establishes guidelines for record keeping and requires tariff provisions pertaining to exclusive use of vehicles and reservations for a portion of a vehicle. This rule was promulgated to protect the consumer when utilizing household goods carriers.

PURPOSE: This rule is being rescinded. The requirements for motor carriers who transport household goods in intrastate commerce as established by previous orders of the Missouri Highways and Transportation Commission and its predecessors are incorporated into a tariff circular and referenced in 7 CSR 265-10.050 Tariffs, Time Schedules and Motor Carrier Documentation.

AUTHORITY: section 622.027, RSMo 2000. This rule was previously filed as 4 CSR 265-10.070 and 4 CSR 265-10.080. Emergency rule filed June 14, 1985, effective July 1, 1985, expired Oct. 28, 1985. Original rule filed Aug. 1, 1985, effective Oct. 29, 1985. For intervening history, please consult the Code of State Regulations. Rescinded: Filed May 2, 2013.

PUBLIC COST: *This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

PRIVATE COST: *This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

NOTICE TO SUBMIT COMMENTS: *Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.*

Title [4—DEPARTMENT OF ECONOMIC DEVELOPMENT] 7—DEPARTMENT OF TRANSPORTATION

Division 265—[Division of] Motor Carrier and Railroad Safety

Chapter [2—Practice and Procedure] 10—Motor Carrier Operations

PROPOSED AMENDMENT

[4 CSR 265-2.190] 7 CSR 265-10.090 Merger of Duplicated or Overlapping Motor Carrier Operating Authority. The Missouri Highways and Transportation Commission is amending sections (1)–(4) and moving the rule to Title 7 Department of Transportation.

PURPOSE: *This proposed amendment interprets and implements the principles of merger with reference to motor carriers who acquire, or whose certificates or permits contain, duplicated or overlapping pieces of operating authority.*

(1) Two (2) or more separate pieces of motor carrier operating authority possessed or acquired by a motor carrier shall be deemed to be merged, and shall no longer be effective as separate pieces of authority, whenever the commodities to be transported, the routes or territory to be served, and the nature of the transportation service authorized by one (1) piece of authority are identical to, or wholly included within, the scope of the commodities, the routes, or territory, and the nature of the service authorized by another piece of the carrier's authority. Two (2) or more pieces of the carrier's authority on which consolidation, through service or tacking has been authorized by the *[division] commission* shall be considered as one (1) piece of authority for this purpose. A partial duplication or overlapping of each piece of authority is not sufficient to cause merger; both pieces must be identical, or the greater piece must wholly overlap or include the lesser piece, in order for the separate pieces of authority to be merged.

(2) A motor carrier shall not transfer away a piece of authority and yet retain another piece of authority that was merged with the transferred authority. In these cases, the transferor shall forfeit the merged authority to the extent that it duplicates, overlaps, or is overlapped by the transferred piece of authority, except that, if the transferee notifies the *[division] commission* in writing during a transfer application proceeding that the duplicated or overlapping authority is to be kept by the transferor, then the transferor may keep the merged authority and none of the duplicated or overlapping authority shall be transferred to the transferee. The principles set forth in this rule and the procedures set forth in *[4 CSR 265-2.066(5)] 7 CSR 265-10.015* shall apply to proposed transfers involving the merger of authority.

(3) After notice to the affected carrier and an opportunity for hearing, the *[division] commission* may restate a motor carrier's certificate or permit so as to delete extra pieces of authority that are deemed to be merged and no longer effective as separate pieces of authority. The *[division] commission* staff or other interested party may propose a restatement of merged authority in transfer proceedings under *[4 CSR 265-2.066] 7 CSR 265-10.015*, or by filing an independent application with the *[division] commission*.

(4) The merger principles stated in this rule are applicable irrespective of whether the carrier possesses or acquires the duplicated or overlapping pieces of authority by transfer or by grant of new authority, and without regard to any failure or omission by the *[division] commission* or its predecessors, *the Missouri Public Service Commission,* to delete the duplicated or overlapping pieces of authority from any motor carrier's certificate or permit.

AUTHORITY: *section 622.027, RSMo [1986] 2000. This rule originally filed as 4 CSR 265-2.190. Original rule filed Nov. 4, 1992, effective July 8, 1993. Moved and amended: Filed May 2, 2013.*

PUBLIC COST: *This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

PRIVATE COST: *This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

NOTICE TO SUBMIT COMMENTS: *Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.*

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED AMENDMENT

7 CSR 265-10.100 Regulation of Advertising by Motor Carriers. The Missouri Highways and Transportation Commission is amending section (1) and removing section (2).

PURPOSE: *This proposed amendment regulates advertising by certain motor carriers, in order to facilitate public recognition of unauthorized carriers, and prevents certain contract carriers from improperly holding out their transportation service to the general public.*

(1) Every common carrier *[holding a certificate from this division authorizing] authorized to transport[ation of] household goods or passengers in intrastate commerce[,]* who advertises or holds out to the general public, **or a contract carrier of household goods or passengers in charter service who advertises or holds out intrastate transportation service to specific persons or specific groups** in this state as engaging in transportation by motor vehicle of household goods or passengers in charter service, shall state in the advertisement or notice, in addition to any other information, the identifying number of that carrier's certificate issued by the *[division] commission*, and the carrier's name or trade name as stated in the certificate **or permit**. This includes, but is not limited to, yellow pages telephone directory advertising.

[(2) A contract carrier of household goods or passengers shall not hold out to the general public as being engaged in

transportation of household goods or passengers by motor vehicle in intrastate commerce, except that this section shall not prohibit a contract or common carrier from advertising and performing transportation as a motor carrier which is exempted under section 390.030, RSMo, nor does it prohibit a contract carrier who also holds a certificate from this division authorizing transportation as a common carrier from holding out services authorized under that common carrier certificate. A carrier holding out transportation service to the general public is presumed to be engaged in transportation as a common carrier, which must be authorized by a certificate under section 390.051.1, RSMo, or exempted under section 390.030, RSMo. Whenever a contract carrier of household goods or passengers in charter service advertises or holds out intrastate transportation service to specific persons or specific groups, the carrier shall state in the advertisement or notice, in addition to any other information, the entire identifying number of the contract carrier permit issued to the carrier by this division, and the carrier's name or trade name as stated in the permit.]

AUTHORITY: section 622.027, RSMo [1994] 2000. This rule originally filed as 4 CSR 265-10.100. Original rule filed Nov. 4, 1992, effective July 8, 1993. For intervening history, please consult the *Code of State Regulations*. Amended: Filed May 2, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RESCISSION

7 CSR 265-10.110 Joint Service, Interlining and Tacking by Passenger or Household Goods Carriers. This rule set forth when and how motor carriers of passengers could provide service at joint through rates with other motor carriers, and through service between points on their own separate routes.

PURPOSE: This rule is being rescinded in order to replace the entire rule to reflect when and how motor carriers of passengers or household goods may provide service at joint through rates with other motor carriers.

AUTHORITY: section 622.027, RSMo [1994] 2000. This rule originally filed as 4 CSR 265-10.110. Original rule filed Nov. 4, 1992, effective July 8, 1993. For intervening history, please consult the *Code of State Regulations*. Rescinded: Filed May 2, 2013.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RULE

7 CSR 265-10.110 Joint Service and Interlining by Passenger or Household Goods Carriers

PURPOSE: This proposed rule sets forth when and how motor carriers of passengers or household goods may provide service at joint through rates with other motor carriers.

(1) Every motor carrier, to the extent it is authorized by the commission to transport passengers between points in Missouri over regular routes only, may participate in joint or interline service after compliance with the applicable tariff requirements of 7 CSR 265-10.055 between any point in Missouri on its own regular route where service is authorized by its own certificate or permit, and any other point in Missouri on the regular route of another motor carrier of passengers where service is authorized by that carrier's certificate or permit, and shall actually interchange passengers with the other carrier at an authorized point common to both carriers' certificates or permits.

(2) Every motor carrier, to the extent it is authorized by the commission to transport household goods after compliance with 7 CSR 265-10.050 between any through routes in Missouri where service is authorized by its own certificate or permit, and any other point in Missouri on the regular routes of another motor carrier of household goods where service is authorized by that carrier's certificate or permit, and shall actually interchange household goods with the other carrier at an authorized point common to both carriers' certificates or permits.

AUTHORITY: section 622.027, RSMo 2000. This rule originally filed as 4 CSR 265-10.110. Original rule filed Nov. 4, 1992, effective July 8, 1993. For intervening history, please consult the *Code of State Regulations*. Rescinded and readopted: Filed May 2, 2013.

PUBLIC COST: This proposed rule will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rule will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RESCISSION

7 CSR 265-10.120 Household Goods Tariffs. This rule prescribed the form of the tariff filings with the commission.

PURPOSE: This rule is being rescinded. The requirement for motor carriers who transport household goods in intrastate commerce as established by previous order of the Missouri Highways and Transportation Commission and its predecessors is incorporated into a tariff circular and referenced in 7 CSR 265-10.050 Tariffs, Time Schedules and Motor Carrier Documentation.

AUTHORITY: section 622.027, RSMo 2000. Emergency rule filed Sept. 13, 2007, effective Oct. 3, 2007, expired March 30, 2008. Original rule filed Sept. 13, 2007, effective March 30, 2008. Rescinded: Filed May 2, 2013.

PUBLIC COST: This proposed rescission will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rescission will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rescission with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 265—Motor Carrier and Railroad Safety
Chapter 10—Motor Carrier Operations**

PROPOSED RULE

7 CSR 265-10.130 Complaints

PURPOSE: This proposed rule sets forth the requirements for filing consumer complaints with the Missouri Highways and Transportation Commission.

PUBLISHER'S NOTE: The secretary of state has determined that the publication of the entire text of the material which is incorporated by reference as a portion of this rule would be unduly cumbersome or expensive. This material as incorporated by reference in this rule shall be maintained by the agency at its headquarters and shall be made available to the public for inspection and copying at no more than the actual cost of reproduction. This note applies only to the reference material. The entire text of the rule is printed here.

(1) Authority to File Complaints. Complaints may be made regarding the movement of household goods in intrastate commerce against any motor carrier upon the filing of such complaint with the commission.

(2) Complaint Information. The complainant shall provide to the commission the information as required on the commission's complaint form as published by the Missouri Highways and Transportation Commission, Motor Carrier Services Division, which is incorporated herein by reference and made a part of this

rule as published by the Missouri Highways and Transportation Commission, Motor Carrier Services Division. The form may be located at www.modot.org/movinginmissouri. April 8, 2013. This rule does not include subsequent amendments or additions.

(3) Dismissal. The complaint shall be dismissed without action and the complainant shall be notified by the commission if the complainant fails to file the required information; the description or documentation of the complaint is unclear and not sufficient to determine what act or omission is being described within the complaint; the complaint is not within the jurisdiction of the commission or the complaint is unfounded. No complaint shall be dismissed solely because of the absence of direct damage to the complainant.

(4) Disclosure. Only information open for public inspection shall be divulged to the complainant.

(5) Federal Coordination. The commission may coordinate interstate commerce complaint investigations, findings, and disposition with the U.S. Department of Transportation, Federal Motor Carrier Safety Administration.

(6) Complaint Resolution. The respondent and commission may resolve the complaint without any approval of the complainant. If a complaint is not resolved between the commission and the respondent, the commission may prosecute the complaint as authorized by law.

AUTHORITY: section 622.027, RSMo 2000. Original rule filed May 2, 2013.

PUBLIC COST: This proposed rule will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed rule will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**Title [4—DEPARTMENT OF ECONOMIC
DEVELOPMENT] 7—DEPARTMENT OF
TRANSPORTATION
Division 265—[Division of] Motor Carrier
and Railroad Safety
Chapter [2—Practice and Procedure] 10—Motor Carrier
Operations**

PROPOSED AMENDMENT

[4 CSR 265-2.180] 7 CSR 265-10.140 Discontinuance of Service; Suspension and Revocation of Certificates, [and] Permits, and Property Carrier Registrations. The Missouri Highways and Transportation Commission is amending sections (1), (3), (4), (6), and (7); deleting sections (2) and (5); renumbering as needed; and moving the rule to Title 7 Department of Transportation.

PURPOSE: This proposed amendment prescribes procedures for cancelling, suspending and revoking a certificate, permit, or property carrier registration to transport passengers or property.

(1) The *[division] commission* may cancel a certificate, *[or] permit, or property carrier registration* which authorizes the transportation of passengers *[in charter service]* or property *[other than household goods]*, upon receiving written notice from the person to whom the *[certificate or permit] authority* was issued which indicates that the person has discontinued that transportation service. The *[division] commission* may cancel such a certificate or permit without a hearing, unless the person requests a hearing before the effective date of the cancellation.

[(2) Motor carriers of passengers other than in charter service or household goods desiring to discontinue all or any part of the intrastate transportation service authorized in their certificates or permits shall file, in writing, an original and one (1) copy of an application with the director of the division. The application shall be verified under oath or penalty of perjury, and shall—

(A) Have attached to it a copy of the carrier's certificate or permit on which the specific route or portion of the described service which the applicant seeks to discontinue is highlighted or otherwise indicated;

(B) State specifically on it the reasons why the applicant seeks to discontinue the transportation service;

(C) State specifically on it the pertinent, supporting facts on which the applicant relies; and

(D) Be granted by the division's administrative law judge only for good cause shown, based on the verified application, any responses filed by division staff and other interested persons, and, if so ordered in the judge's discretion, evidence admitted at a hearing on the application.]

[(3)](2) If a common carrier of passengers who has both intrastate authority and interstate authority issued by [the Interstate Commerce Commission (ICC)] the Secretary of the Department of Transportation (Secretary) or its predecessor under 49 U.S.C. section [10922] 13902, to provide transportation over routes on which the carrier proposes to discontinue intrastate service, [or to reduce intrastate service to a level which is less than one (1) trip per day (excluding Saturdays and Sundays), then the carrier shall apply to this division for authority to discontinue or reduce that intrastate service. The application shall comply with the provisions of section (1) of this rule and the following additional requirements:

(A) The verified application shall—

1. State whether the applicant has applied to the ICC for authority to discontinue his/her corresponding interstate service on the route under 49 U.S.C. section 10925(b), and whether or not the ICC has granted or will grant that authority;

2. Attach] a copy of the [ICC] order authorizing discontinuance or reduction of the interstate service[, if any, and attach a copy of the carrier's ICC certificate which authorizes the interstate service on the route;] must be attached to the written notice before the commission considers the cancellation request.

[3. Include detailed information showing the nature and amount of the interstate and intrastate revenues received by the carrier for providing the transportation proposed to be discontinued or reduced, and the variable costs of providing that transportation, including depreciation for revenue equipment; and

(B) In making a finding of good cause under subsection (1)(D) of this rule, the administrative law judge shall consider at least the following:

1. Whether the proposed discontinuance or reduction is not consistent with the public interest; and

2. Whether the interstate and intrastate revenues received by the carrier for providing the transportation pro-

posed to be discontinued or reduced are less than the variable costs of providing the transportation, including depreciation for revenue equipment.]

[(4)](3) Whenever [an administrative law judge shall] the commission suspends the certificate, [or] permit, or property carrier registration of a motor carrier as provided under section 390.106, RSMo, the [division] commission shall immediately notify the carrier of the suspension by mailing a copy of the suspension order to the carrier's principal place of business or mailing address, if different, as shown upon the [division's] commission's records. Within a reasonable time after suspension, the [division] commission shall [set] send the matter to the Administrative Hearing Commission for a hearing [on not less than ten (10) days' notice, and shall serve on the motor carrier an order requiring him/her to appear at the hearing and] to show cause why his/her certificate or permit should not be revoked. [The scheduled hearing shall be continued by order of the administrative law judge to a later date only for good cause shown.]

[(5) Whenever a formal complaint is filed in accordance with 4 CSR 265-2.070, which requests the suspension or revocation of a motor carrier's certificate or permit on any of the four (4) grounds set forth in section 390.106, RSMo, the division shall proceed in accordance with that rule, except that the hearing shall be held upon not less than ten (10) days' notice to the carrier, and any order of revocation shall become effective upon not less than thirty (30) days' notice.]

[(6)](4) After the hearing, and upon a finding that any of the grounds exist for revocation as set forth in subdivisions (1), (2), (3), or (4) of section 390.106, RSMo, the [administrative law judge] Administrative Hearing Commission may order the revocation of the carrier's certificate, [or] permit, or property carrier registration upon not less than thirty (30) days notice to the carrier. The notice shall be sent by [certified] mail [return receipt requested,] to the carrier's principal place of business or mailing address, if different, as shown upon the commission's records, to any carrier who holds intrastate authority.

[(7)](5) When a carrier has been given notice as provided in this rule, a certificate, [or] permit, or property carrier registration shall not be reinstated or restored to active status after the effective date of an [division] order which has revoked that certificate or permit.

AUTHORITY: section 622.027, RSMo [1994] 2000. This rule originally filed as 4 CSR 265-2.180. Original rule filed Nov. 4, 1992, effective July 8, 1993. For intervening history, please consult the Code of State Regulations. Moved and amended: Filed May 2, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Transportation, Pamela Harlan, Secretary to the Commission, PO Box 270, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 10—Air Conservation Commission
Chapter 6—Air Quality Standards, Definitions, Sampling
and Reference Methods and Air Pollution Control
Regulations for the Entire State of Missouri

PROPOSED AMENDMENT

10 CSR 10-6.070 New Source Performance Regulations. The commission proposes to amend subsection (1)(A) and section (3). If the commission adopts this rule action, it will be the department's intention to advise the U.S. Environmental Protection Agency that we will accept delegation of enforcement authority for these federal regulations. The evidence supporting the need for this proposed rulemaking is available for viewing at the Missouri Department of Natural Resources' Air Pollution Control Program at the address listed in the Notice of Public Hearing at the end of this rule. More information concerning this rulemaking can be found at the Missouri Department of Natural Resources' Environmental Regulatory Agenda website, www.dnr.mo.gov/regs/index.html.

PURPOSE: This rule establishes acceptable design and performance criteria for specified new or modified emission sources. The purpose of this rulemaking is to adopt by reference new emission standards, updates, and clarifications to existing federal rule 40 CFR 60 that were promulgated from February 17, 2012, through December 31, 2012. The evidence supporting the need for this proposed rulemaking, per 536.016, RSMo, is elements of the state/EPA work plan and Title V Operating Permit Program requirements.

(1) Applicability.

(A) The provisions of 40 CFR 60 promulgated as of June 30, [2011] **2012**, and Federal Register Notices [77 FR 9304] **77 FR 48433, 77 FR 49490, and 77 FR 56422** promulgated [February 16, 2012] **from July 1, 2012, through December 31, 2012**, shall apply and are hereby incorporated by reference in this rule, as published by the Office of the Federal Register, U.S. National Archives and Records, 700 Pennsylvania Avenue NW, Washington, DC 20408. This rule does not incorporate any subsequent amendments or additions.

(3) General Provisions. The following [are the] New Source Performance Standards (NSPS) 40 CFR part 60 subparts [that are] adopted by reference in subsection (1)(A) of this rule.] **are listed below by [/]individual source operations or installations in these categories [are] and subject to this rule [based on date of commencement of construction and other category specific parameters,] as specified in the applicable subpart:**

Subpart Title

(D) Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971

(Da) Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978

(Db) Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

(Dc) Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

(E) Standards of Performance for Incinerators

(Ea) Standards of Performance for Municipal Waste Combustors for Which Construction is Commenced After December 20, 1989 and on or Before September 20, 1994

(Eb) Standards of Performance for Large Municipal Waste Combustors for Which Construction is Commenced After September 20, 1994 or for Which Modification or Reconstruction is Commenced After June 19, 1996

(Ec) Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996

(F) Standards of Performance for Portland Cement Plants

(G) Standards of Performance for Nitric Acid Plants

(Ga) Standards of Performance for Nitric Acid Plants for Which Construction, Reconstruction, or Modification Commenced After October 14, 2011

(H) Standards of Performance for Sulfuric Acid Plants

(I) Standards of Performance for Hot Mix Asphalt Facilities

(J) Standards of Performance for Petroleum Refineries

(Ja) Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

(K) Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978

(Ka) Standards [for] of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984

(Kb) Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984

(L) Standards of Performance for Secondary Lead Smelters

(M) Standards of Performance for Secondary Brass and Bronze Production Plants

(N) Standards of Performance for Primary Emissions from Basic Oxygen Process Furnaces for Which Construction is Commenced After June 11, 1973

(Na) Standards of Performance for Secondary Emissions from Basic Oxygen Process Steelmaking Facilities for Which Construction is Commenced After January 20, 1983

(O) Standards of Performance for Sewage Treatment Plants

(P) Standards of Performance for Primary Copper Smelters

(Q) Standards of Performance for Primary Zinc Smelters

(R) Standards of Performance for Primary Lead Smelters

(S) Standards of Performance for Primary Aluminum Reduction Plants

(T) Standards of Performance for the Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants

(U) Standards of Performance for the Phosphate Fertilizer Industry: Superphosphoric Acid Plants

(V) Standards of Performance for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants

(W) Standards of Performance for the Phosphate Fertilizer Industry: Triple Superphosphate Plants

(X) Standards of Performance for the Phosphate Fertilizer Industry: Granular Triple Superphosphate Storage Facilities

(Y) Standards of Performance for Coal Preparation Plants

(Z) Standards of Performance for Ferroalloy Production Facilities

(AA) Standards of Performance for Steel Plants: Electric Arc Furnaces Constructed After October 21, 1974, and On or Before August 17, 1983

(AAa) Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 17, 1983

(BB) Standards of Performance for Kraft Pulp Mills

(CC) Standards of Performance for Glass Manufacturing Plants

(DD) Standards of Performance for Grain Elevators

(EE) Standards of Performance for Surface Coating of Metal Furniture

(GG) Standards of Performance for Stationary Gas Turbines

(HH) Standards of Performance for Lime Manufacturing Plants

(KK) Standards of Performance for Lead-Acid Battery Manufacturing Plants

(LL) Standards of Performance for Metallic Mineral Processing Plants
(MM) Standards of Performance for Automobile and Light Duty Truck Surface Coating Operations
(NN) Standards of Performance for Phosphate Rock Plants
(PP) Standards of Performance for Ammonium Sulfate Manufacture
(QQ) Standards of Performance for the Graphic Arts Industry: Publication Roto/-gravure Printing
(RR) Standards of Performance for Pressure Sensitive Tape and Label Surface Coating Operations
(SS) Standards of Performance for Industrial Surface Coating: Large Appliances
(TT) Standards of Performance for Metal Coil Surface Coating
(UU) Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture
(VV) Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry **for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006**
(VVa) Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006
(WW) Standards of Performance for the Beverage Can Surface Coating Industry
(XX) Standards of Performance for Bulk Gasoline Terminals
(AAA) Standards of Performance for New Residential Wood Heaters
(BBB) Standards of Performance for the Rubber Tire Manufacturing Industry
(DDD) Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry
(FFF) Standards of Performance for Flexible Vinyl and Urethane Coating and Printing
(GGG) Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries **for which Construction, Reconstruction, or Modification Commenced After January 4, 1983, and on or Before November 7, 2006**
(GGGa) Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006
(HHH) Standards of Performance for Synthetic Fiber Production Facilities
(III) Standards of Performance for Volatile Organic Compound (VOC) Emissions From the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Air Oxidation Unit Processes
(JJJ) Standards of Performance for Petroleum Dry Cleaners
(KKK) Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants
(LLL) Standards of Performance for Onshore Natural Gas Processing: SO₂ Emissions
(NNN) Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations
(OOO) Standards of Performance for Nonmetallic Mineral Processing Plants
(PPP) Standard of Performance for Wool Fiberglass Insulation Manufacturing Plants
(QQQ) Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems
(RRR) Standards of Performance for Volatile Organic Compound Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes
(SSS) Standards of Performance for Magnetic Tape Coating Facilities
(TTT) Standards of Performance for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines

(UUU) Standards of Performance for Calciners and Dryers in Mineral Industries
(VVV) Standards of Performance for Polymeric Coating of Supporting Substrates Facilities
(WWW) Standards of Performance for Municipal Solid Waste Landfills
(AAAA) Standards of Performance for Small Municipal Waste Combustion Units for Which Construction is Commenced After August 30, 1999 or for Which Modification or Reconstruction is Commenced After June 6, 2001
(CCCC) Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Is Commenced After November 30, 1999 or for Which Modification or Reconstruction Is Commenced on or After June 1, 2001
(EEEE) Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004, or for Which Modification or Reconstruction Is Commenced on or After June 16, 2006
(III) Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
(JJJJ) Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
(KKKK) Standards of Performance for Stationary Combustion Turbines
(LLLL) Standards of Performance for New Sewage Sludge Incineration Units
(OOOO) **Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution**

AUTHORITY: section 643.050, RSMo Supp. [2011] 2012, Original rule filed Dec. 10, 1979, effective April 11, 1980. For intervening history, please consult the Code of State Regulations. Amended: Filed May 7, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate. The private entity fiscal cost impacts for compliance with the federal standards are accounted for in the federal rulemakings.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: A public hearing on this proposed amendment will begin at 9:00 a.m., July 24, 2013. The public hearing will be held at the Elm Street Conference Center, 1730 East Elm Street, Lower Level, Bennett Springs Conference Room, Jefferson City, Missouri. Opportunity to be heard at the hearing shall be afforded any interested person. Interested persons, whether or not heard, may submit a written or email statement of their views until 5:00 p.m., July 31, 2013. Written comments shall be sent to Chief, Air Quality Planning Section, Missouri Department of Natural Resources' Air Pollution Control Program, PO Box 176, Jefferson City, MO 65102-0176. Email comments shall be sent to apcprulespn@dnr.mo.gov.

**Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 10—Air Conservation Commission
Chapter 6—Air Quality Standards, Definitions, Sampling
and Reference Methods and Air Pollution Control
Regulations for the Entire State of Missouri**

PROPOSED AMENDMENT

10 CSR 10-6.075 Maximum Achievable Control Technology Regulations. The commission proposes to amend subsection (1)(A) and section (3). If the commission adopts this rule action, it will be the department's intention to advise the U.S. Environmental Protection

Agency that we will accept delegation of enforcement authority for these federal regulations. The evidence supporting the need for this proposed rulemaking is available for viewing at the Missouri Department of Natural Resources' Air Pollution Control Program at the address listed in the Notice of Public Hearing at the end of this rule. More information concerning this rulemaking can be found at the Missouri Department of Natural Resources' Environmental Regulatory Agenda website, www.dnr.mo.gov/regs/index.html.

PURPOSE: This rule establishes emission control technology, performance criteria, and work practices to achieve emission standards for sources that emit or have the potential to emit hazardous air pollutants. The purpose of this rulemaking is to adopt by reference new emission standards, updates, and clarifications to existing federal rule 40 CFR 63 that were promulgated from February 17, 2012, through December 31, 2012. The evidence supporting the need for this proposed rulemaking, per 536.016, RSMo, is elements of the state/EPA work plan and Title V Operating Permit Program requirements.

(1) Applicability.

(A) The provisions of 40 CFR 63 promulgated as of June 30, [2011] 2012, and Federal Register Notices [76 FR 57913, 76 FR 70834, 76 FR 72050, 76 FR 74708, 76 FR 80261, 77 FR 556, and 77 FR 9304] 77 FR 45967, 77 FR 49490, 77 FR 55698, 77 FR 58220, 77 FR 65135, and 77 FR 75740 promulgated from July 1, [2011] 2012, through [February 16] December 31, 2012, shall apply and are hereby incorporated by reference in this rule, as published by the Office of the Federal Register, U.S. National Archives and Records, 700 Pennsylvania Avenue NW, Washington, DC 20408. This rule does not incorporate any subsequent amendments or additions.

(3) General Provisions. The following [are the] Maximum Achievable Control Technology (MACT) 40 CFR 63 subparts [that are] adopted by reference in subsection (1)(A) of this rule[,] are listed below by [individual source operations or installations in these categories [are] and subject to this rule [based on category specific parameters,] as specified in the applicable subpart:

Subpart Title

(F) National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry

(G) National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater

(H) National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks

(I) National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks

(L) National Emission Standards for Coke Oven Batteries

(M) National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities

(N) National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks

(O) Ethylene Oxide Emissions Standards for Sterilization Facilities

(Q) National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers

(R) National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)

(S) National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry

(T) National Emission Standards for Halogenated Solvent Cleaning

(U) National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins

(W) National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-Nylon Polyamides Production

(X) National Emission Standards for Hazardous Air Pollutants From Secondary Lead Smelting

(Y) National Emission Standards for Marine Tank Vessel Loading Operations

(AA) National Emission Standards for Hazardous Air Pollutants From Phosphoric Acid Manufacturing Plants

(BB) National Emission Standards for Hazardous Air Pollutants From Phosphate Fertilizers Production Plants

(CC) National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries

(DD) National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations

(EE) National Emission Standards for Magnetic Tape Manufacturing Operations

(GG) National Emission Standards for Aerospace Manufacturing and Rework Facilities

(HH) National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities

(II) National Emission Standards for Shipbuilding & Ship Repair (Surface Coating)

(JJ) National Emission Standards for Wood Furniture Manufacturing Operations

(KK) National Emission Standards for the Printing and Publishing Industry

(LL) National Emission Standards for Hazardous Air Pollutants for Primary Aluminum Reduction Plants

(MM) National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills

(OO) National Emission Standards for Tanks—Level 1

(PP) National Emission Standards for Containers

(QQ) National Emission Standards for Surface Impoundments

(RR) National Emission Standards for Individual Drain Systems

(SS) National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process

(TT) National Emission Standards for Equipment Leaks—Control Level 1

(UU) National Emission Standards for Equipment Leaks—Control Level 2 Standards

(VV) National Emission Standards for Oil-Water Separators and Organic-Water Separators

(WW) National Emission Standards for Storage Vessels (Tanks)—Control Level 2

(XX) National Emission Standards for Ethylene Manufacturing Process Units: Heat Exchange Systems and Waste Operations

(YY) National Emission Standards for Hazardous Air Pollutants for Source Categories: Generic Maximum Achievable Control Technology Standards

(CCC) National Emission Standards for Hazardous Air Pollutants for Steel Pickling—HCl Process Facilities and Hydrochloric Acid Regeneration Plants

(DDD) National Emission Standards for Hazardous Air Pollutants for Mineral Wool Production

(EEE) National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors

(GGG) National Emission Standards for Pharmaceuticals Production

(HHH) National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities

(III) National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production

(JJJ) National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins

(LLL) National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry
(MMM) National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production
(NNN) National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing
(OOO) National Emission Standards for Hazardous Air Pollutant Emissions: Manufacture of Amino/Phenolic Resins
(PPP) National Emission Standards for Hazardous Air Pollutant Emissions for Polyether Polyols Production
(QQQ) National Emission Standards for Hazardous Air Pollutant Emissions for Primary Copper Smelting
(RRR) National Emission Standards for Hazardous Air Pollutants: Secondary Aluminum Production
(TTT) National Emission Standards for Hazardous Air Pollutants for Primary Lead Smelting
(UUU) National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units
(VVV) National Emission Standards for Hazardous Air Pollutants: Publicly Owned Treatment Works
(XXX) National Emission Standards for Hazardous Air Pollutants for Ferroalloys Production: Ferromanganese and Silicomanganese
(AAAA) National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills
(CCCC) National Emission Standards for Hazardous Air Pollutants: Manufacturing of Nutritional Yeast
(DDDD) National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products
(EEEE) National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)
(FFFF) National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing
(GGGG) National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production
(HHHH) National Emission Standards for Hazardous Air Pollutants for Wet-Formed Fiberglass Mat Production
(IIII) National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light Duty Trucks
(JJJJ) National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating
(KKKK) National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Cans
(MMMM) National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products
(NNNN) National Emission Standards for Hazardous Air Pollutants: Surface Coating of Large Appliances
(OOOO) National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles
(PPPP) National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products
(QQQQ) National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products
(RRRR) National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture
(SSSS) National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Coil
(TTTT) National Emission Standards for Hazardous Air Pollutants for Leather Finishing Operations
(UUUU) National Emission Standards for Hazardous Air Pollutants for Cellulose Products Manufacturing
(VVVV) National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing
(WWWW) National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production

(XXXX) National Emission Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing
(YYYY) National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines
(ZZZZ) National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
(AAAAA) National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants
(BBBBB) National Emission Standards for Hazardous Air Pollutants for Semiconductor Manufacturing
(CCCCC) National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks
(DDDDD) National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters
(EEEEE) National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries
(FFFFF) National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities
(GGGGG) National Emission Standards for Hazardous Air Pollutants: Site Remediation
(HHHHH) National Emission Standards for Hazardous Air Pollutants: Miscellaneous Coating Manufacturing
(IIIII) National Emission Standards for Hazardous Air Pollutants: Mercury Emissions From Mercury Cell Chlor-Alkali Plants
(LLLLL) National Emission Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing
(MMMMM) National Emission Standards for Hazardous Air Pollutants: Flexible Polyurethane Foam Fabrication Operations
(NNNNN) National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production
(PPPPP) National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Standards
(QQQQQ) National Emission Standards for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities
(RRRRR) National Emission Standards for Hazardous Air Pollutants: Taconite Iron Ore Processing
(SSSSS) National Emissions Standards for Hazardous Air Pollutants for Refractory Products Manufacturing
(TTTTT) National Emissions Standards for Hazardous Air Pollutants for Primary Magnesium Refining
(UUUUU) National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
(WWWWW) National Emission Standards for Hospital Ethylene Oxide Sterilizers
(YYYYY) National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities
(ZZZZZ) National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources
(BBBBBB) National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities
(CCCCC) National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities
(DDDDDD) National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production Area Sources
(EEEEEE) National Emission Standards for Hazardous Air Pollutants for Primary Copper Smelting Area Sources
(FFFFFF) National Emission Standards for Hazardous Air Pollutants for Secondary Copper Smelting Area Sources
(GGGGGG) National Emission Standards for Hazardous Air Pollutants for Primary Nonferrous Metals Area Sources—Zinc, Cadmium, and Beryllium

(HHHHHH) National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources

(JJJJJJ) National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers

(LLLLLL) National Emission Standards for Hazardous Air Pollutants for Acrylic and Modacrylic Fibers Production Area Sources

(MMMMMM) National Emission Standards for Hazardous Air Pollutants for Carbon Black Production Area Sources

(NNNNNN) National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources: Chromium Compounds

(OOOOOO) National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production and Fabrication Area Sources

(PPPPPP) National Emission Standards for Hazardous Air Pollutants for Lead Acid Battery Manufacturing Area Sources

(QQQQQQ) National Emission Standards for Hazardous Air Pollutants for Wood Preserving Area Sources

(RRRRRR) National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing Area Sources

(SSSSSS) National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources

(TTTTTT) National Emission Standards for Hazardous Air Pollutants for Secondary Nonferrous Metals Processing Area Sources

(VVVVVV) National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

(WWWWWW) National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations

(XXXXXX) National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories

(YYYYYY) National Emission Standards for Hazardous Air Pollutants for Area Sources: Ferroalloys Production Facilities

(ZZZZZZ) National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries

(AAAAAA) National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing

(BBBBBB) National Emission Standards for Hazardous Air Pollutants for Area Sources: Chemical Preparations Industry

(CCCCCC) National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing

(DDDDDD) National Emission Standards for Hazardous Air Pollutants for Area Sources: Prepared Feeds Manufacturing

(EEEEEE) National Emission Standards for Hazardous Air Pollutants: Gold Mine Ore Processing and Production Area Source Category

(HHHHHH) National Emission Standards for Hazardous Air Pollutant Emissions for Polyvinyl Chloride and Copolymers Production

AUTHORITY: section 643.050, RSMo Supp. [2011] 2012. Original rule filed May 1, 1996, effective Dec. 30, 1996. For intervening history, please consult the *Code of State Regulations*. Amended: Filed May 7, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate. The pri-

vate entity fiscal cost impacts for compliance with the federal standards are accounted for in the federal rulemakings.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: A public hearing on this proposed amendment will begin at 9:00 a.m., July 24, 2013. The public hearing will be held at the Elm Street Conference Center, 1730 East Elm Street, Lower Level, Bennett Springs Conference Room, Jefferson City, Missouri. Opportunity to be heard at the hearing shall be afforded any interested person. Interested persons, whether or not heard, may submit a written or email statement of their views until 5:00 p.m., July 31, 2013. Written comments shall be sent to Chief, Air Quality Planning Section, Missouri Department of Natural Resources' Air Pollution Control Program, PO Box 176, Jefferson City, MO 65102-0176. Email comments shall be sent to apcprulespn@dnr.mo.gov.

Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 10—Air Conservation Commission
Chapter 6—Air Quality Standards, Definitions, Sampling and Reference Methods and Air Pollution Control Regulations for the Entire State of Missouri

PROPOSED AMENDMENT

10 CSR 10-6.080 Emission Standards for Hazardous Air Pollutants. The commission proposes to amend subsection (1)(A) and section (3). If the commission adopts this rule action, it will be the department's intention to advise the U.S. Environmental Protection Agency that we will accept delegation of enforcement authority for these federal regulations. The evidence supporting the need for this proposed rulemaking is available for viewing at the Missouri Department of Natural Resources' Air Pollution Control Program at the address listed in the Notice of Public Hearing at the end of this rule. More information concerning this rulemaking can be found at the Missouri Department of Natural Resources' Environmental Regulatory Agenda website, www.dnr.mo.gov/regs/index.html.

PURPOSE: This rule establishes emission standards and performance criteria for new or modified sources emitting hazardous air pollutants. The purpose of this rulemaking is to adopt by reference new emission standards, updates, and clarifications to existing federal rule 40 CFR 61 that were promulgated from February 17, 2012, through December 31, 2012. The evidence supporting the need for this proposed rulemaking, per 536.016, RSMo, is elements of the state/EPA work plan and Title V Operating Permit Program requirements.

(1) Applicability.

(A) The provisions of 40 CFR 61 promulgated as of June 30, [2011] 2012, shall apply and are hereby incorporated by reference in this rule, as published by the Office of the Federal Register, U.S. National Archives and Records, 700 Pennsylvania Avenue NW, Washington, DC 20408. This rule does not incorporate any subsequent amendments or additions.

(3) The following [are the] National Emission Standards for Hazardous Air Pollutants (NESHAPs) 40 CFR part 61 subparts [that are] adopted by reference in subsection (1)(A) of this rule[.] are listed below by [I/]individual source operations or installations in these categories [are] subject to this rule [based on category specific parameters,] as specified in the applicable subpart:

Subpart Title

- (C) National Emission Standard for Beryllium
- (D) National Emission Standard for Beryllium Rocket Motor Firing
- (E) National Emission Standard for Mercury
- (F) National Emission Standard for Vinyl Chloride
- (J) National Emission Standard for Equipment Leaks (Fugitive

Emission Sources) of Benzene

(L) National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants

(M) National Emission Standard for Asbestos

(N) National Emission Standard for Inorganic Arsenic Emissions From Glass Manufacturing Plants

(O) National Emission Standard for Inorganic Arsenic Emissions From Primary Copper Smelters

(P) National Emission Standard for Inorganic Arsenic Emissions From Arsenic Trioxide and Metallic Arsenic Production Facilities

(V) National Emission Standard for Equipment Leaks (Fugitive Emission Sources)

(Y) National Emission Standards for Benzene Emissions From Benzene Storage Vessels

(BB) National Emission Standards for Benzene Emissions From Benzene Transfer Operations

(FF) National Emission Standard for Benzene Waste Operations

AUTHORITY: section 643.050, RSMo Supp. [2011] 2012. Original rule filed Dec. 10, 1979, effective April 11, 1980. For intervening history, please consult the *Code of State Regulations*. Amended: Filed May 7, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate. The private entity fiscal cost impacts for compliance with the federal standards are accounted for in the federal rulemakings.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: A public hearing on this proposed amendment will begin at 9:00 a.m., July 24, 2013. The public hearing will be held at the Elm Street Conference Center, 1730 East Elm Street, Lower Level, Bennett Springs Conference Room, Jefferson City, Missouri. Opportunity to be heard at the hearing shall be afforded any interested person. Interested persons, whether or not heard, may submit a written or email statement of their views until 5:00 p.m., July 31, 2013. Written comments shall be sent to Chief, Air Quality Planning Section, Missouri Department of Natural Resources' Air Pollution Control Program, PO Box 176, Jefferson City, MO 65102-0176. Email comments shall be sent to apcprulespn@dnr.mo.gov.

Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 10—Air Conservation Commission
Chapter 6—Air Quality Standards, Definitions, Sampling
and Reference Methods and Air Pollution Control
Regulations for the Entire State of Missouri

PROPOSED AMENDMENT

10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential. The commission proposes to amend the rule purpose, amend subsection (1)(A), and amend sections (2), (3), and (4). If the commission adopts this rule action, it will be the department's intention to submit this rule amendment to the U.S. Environmental Protection Agency to replace the current rule that is in the Missouri State Implementation Plan. The evidence supporting the need for this proposed rulemaking is available for viewing at the Missouri Department of Natural Resources' Air Pollution Control Program at the address listed in the Notice of Public Hearing at the end of this rule. More information concerning this rulemaking can be found at the Missouri Department of Natural Resources' Environmental Regulatory Agenda website, www.dnr.mo.gov/regs/index.html.

PURPOSE: This rule specifies the conditions that establish air pollution alert and emergency alert levels and the associated procedures and emissions reduction objectives. The purpose of this amendment is to update a table by removing the pollutant concentration breakpoints that become inaccurate each time the National Ambient Air Quality Standards change, clarify the requirement for sources to provide the department with an emissions reduction plan when requested, clarify rule provisions, and remove definitions that can be found in 10 CSR 10-6.020 Definitions and Common Reference Tables. The evidence supporting the need for this proposed rulemaking, per 536.016, RSMo, is a rule comment form dated July 26, 2011, from Missouri Department of Natural Resources staff.

PURPOSE: This rule specifies the conditions that establish [an] air pollution alert[, watch, or emergency] and emergency alert levels and the associated procedures and emissions reduction objectives [for dealing with each].

(1) Applicability.

(A) This rule shall apply to all [emissions from any source or from any premises] sources and premises throughout the entire state with air emissions that contribute to sulfur dioxide (SO₂), carbon monoxide (CO), ozone (O₃), nitrogen dioxide (NO₂), or Particulate Matter—10 Micron (PM₁₀) and 2.5 Micron (PM_{2.5}).

(2) Definitions. Definitions of certain terms specified in this rule may be found in 10 CSR 10-6.020.

[(A) Air pollution alert—The level of an air pollution episode known as an air pollution alert is that condition when the concentration of air contaminants reach the level at which the first stage control actions are to begin.

(B) Air Stagnation Advisory—A special bulletin issued by the National Weather Service entitled "Air Stagnation Advisory," which is used to warn air pollution control agencies that stagnant atmospheric conditions are expected which could cause increased concentrations of air contaminants near the ground.

(C) Area—For the purpose of this rule, any or all regions within the boundaries of the state of Missouri.

(D) Definitions of certain terms specified in this rule, other than those specified in this rule section, may be found in 10 CSR 10-6.020.]

(3) General Provisions.

(A) Air Pollution Alerts.

1. The Air Quality Index shall be reported to the general public on a daily basis by all metropolitan statistical areas with a population exceeding three hundred fifty thousand (350,000).

2. Alert levels for applicable air pollutants are stated in terms of the Air Quality Index (AQI) as defined in 40 CFR [part] 58, Appendix G[, for sulfur dioxide (SO₂), carbon monoxide (CO), ozone (O₃), nitrogen dioxide (NO₂), and Particulate Matter—10 Micron (PM₁₀) and 2.5 Micron (PM_{2.5})]. Table A shows the relation of the AQI [breakpoint values to equivalent concentrations of air contaminants. All concentrations are averaged over the time period indicated] ranges to alert categories.

Table A								
[BREAKPOINT FOR THE] AQI								
AQI	Alert Category	Alert Color	[Breakpoint Values]					
			[O ₃ (ppm)]	[O ₃ (ppm)]	[PM _{2.5} (μg/m ³)]	[PM ₁₀ (μg/m ³)]	[CO (ppm)]	[SO ₂ (ppm)]
			[8-hour]	[1-hour ⁽¹⁾]	[24-hour]	[24-hour]	[8-hour]	[24-hour]
0–50	Good	Green	[0.000–0.059]	[-----]	[0.0–15.4]	[0–54]	[0.0–4.4]	[0.000–0.034]
51–100	Moderate	Yellow	[0.060–0.075]	[-----]	[15.5–40.4]	[55–154]	[4.5–9.4]	[0.035–0.144]
101–150	Unhealthy for sensitive groups	Orange	[0.076–0.095]	[0.125–0.164]	[40.5–65.4]	[155–254]	[9.5–12.4]	[0.145–0.224]
151–200	Unhealthy	Red	[0.096–0.115]	[0.165–0.204]	[65.5–150.4]	[255–354]	[12.5–15.4]	[0.225–0.304]
201–300	Very Unhealthy	Purple	[0.116–0.374]	[0.205–0.404]	[150.5–250.4]	[355–424]	[15.5–30.4]	[0.305–0.604]
301–400	Hazardous	Maroon	[(3)]	[0.405–0.504]	[250.5–350.4]	[425–504]	[30.5–40.4]	[0.605–0.804]
401–500	Hazardous	Maroon	[(3)]	[0.505–0.604]	[350.5–500.4]	[505–604]	[40.5–50.4]	[0.805–1.004]

⁽¹⁾ Areas are generally required to report the AQI based on eight (8)-hour ozone values. However, there are a small number of areas where an AQI based on one (1)-hour ozone values would be more precautionary. In these cases, in addition to calculating the eight (8)-hour ozone index value, the one (1)-hour ozone index value may be calculated, and the maximum of the two (2) values reported.

⁽²⁾ NO₂ has no short-term National Ambient Air Quality Standard and can generate an AQI value only above two hundred (200).

⁽³⁾ Eight (8)-hour O₃ values do not define higher AQI values (greater than or equal to three hundred one (301)). AQI values of three hundred one (301) or higher are calculated with one (1)-hour O₃ concentrations.]

3. Alert types and levels of initiation. **If an AQI value falls within the AQI range listed in Table A of this rule, the corresponding alert color shall be initiated.**

[A. Orange alert AQI value. Any one (1) of the contaminants listed in paragraph (3)(A)2. reaching a concentration which results in an AQI value of one hundred one to one hundred fifty (101–150) shall initiate the orange alert.

B. Red alert AQI value. Any one (1) of the contaminants listed in paragraph (3)(A)2. reaching a concentration which results in an AQI value of one hundred fifty-one to two hundred (151–200) shall initiate the red alert.

C. Purple alert AQI value. Any one (1) of the contaminants listed in paragraph (3)(A)2. reaching a concentration which results in an AQI value of two hundred one to three hundred (201–300) shall initiate the purple alert.

D. Maroon emergency alert AQI value. Any one (1) of the contaminants listed in paragraph (3)(A)2. reaching a concentration which results in an AQI value of three hundred one to five hundred (301–500) shall initiate the maroon emergency alert.]

4. Declaration of alerts. An orange alert, red alert, purple alert, or maroon emergency alert may be declared on the basis of deteriorating air quality alone; an Air Stagnation Advisory need not be in effect. The appropriate *[episode status]* alert level should be declared by the director as ambient monitoring would indicate.

5. Termination of alerts. When, in the judgment of the director, meteorological conditions and pollutant concentrations warrant dis-

continuation of any alert condition, the director shall notify the technical staff, the chairman, and members of the Missouri Air Conservation Commission that the alert has been discontinued and issue a public notice to that effect.

(B) [Orange Alert.] Conditions. This subsection provides conditions that establish alert level categories.

[1. Orange alert procedures shall be initiated by the director if the following conditions are met:

A. An Air Stagnation Advisory is in effect;

B. The orange alert AQI value is equaled or exceeded at any one (1) monitoring station within the affected area, unless there is a current forecast of meteorological improvement within the next twenty-four (24) hours; and

C. Meteorological conditions are such that the pollutant concentrations can be expected to remain or reoccur at the previously mentioned levels during the next twenty-four (24) or more hours or increase unless control actions are taken.

2. The following are orange alert procedures. The general public shall be informed through the news media that an orange alert exists, the geographical area(s) where the alert is applicable, the emission and type of source(s) that initiated the alert and encourage those with respiratory ailments or heart conditions to take the most appropriate and expedient precautions.]

Table B			
Conditions for Alert Level Categories			
Orange (101-150)	Red (151-200)	Purple (201-300)	Maroon (301-500)
<p>This alert level AQI value is equaled or exceeded at any one (1) monitoring station within the affected area, unless there is a current forecast of meteorological improvement within the next twenty-four (24) hours.</p> <p>-- and --</p> <p>Meteorological conditions are such that the conditions can be expected to remain or reoccur in this alert level range during the next twenty-four (24) or more hours or increase unless control actions are taken.</p>	<p>This alert level AQI value is equaled or exceeded at any one (1) monitoring station within the affected area, unless there is a current forecast of meteorological improvement within the next twenty-four (24) hours.</p> <p>-- and --</p> <p>Meteorological conditions are such that the conditions can be expected to remain or reoccur in this alert level range during the next twenty-four (24) or more hours or increase unless control actions are taken.</p>	<p>This alert level AQI value is equaled or exceeded at any one (1) monitoring station within the affected area.</p>	<p>This alert level AQI value is equaled or exceeded at any one (1) monitoring station within the affected area.</p>
		<p>-- or --</p> <p>This alert level AQI value is equaled or exceeded as the arithmetic mean for twelve (12) consecutive hours and an Air Stagnation Advisory is in effect.</p>	<p>-- or --</p> <p>This alert level AQI value is equaled or exceeded as the arithmetic mean for twelve (12) consecutive hours and a forecast of stagnation for the following twelve (12) hours is received.</p>
		<p>-- or --</p> <p>The red alert AQI value is equaled or exceeded as the arithmetic mean for twenty-four (24) consecutive hours and a forecast of stagnation for the following twelve (12) hours is received.</p>	<p>-- or --</p> <p>The purple alert AQI value is equaled or exceeded as the arithmetic mean for twenty-four (24) consecutive hours and a forecast of stagnation for the following twelve (12) hours is received.</p>
			<p>-- or --</p> <p>The red alert AQI value is equaled or exceeded as the arithmetic mean for thirty-six (36) consecutive hours and a forecast of stagnation for the following twelve (12) hours is received.</p>

(C) [Red Alert.] Procedures. This subsection establishes procedures for addressing alert level conditions.

[1. Red alert procedures shall be initiated by the director if the following conditions are met:

A. An Air Stagnation Advisory is in effect;

B. The red alert AQI value is equaled or exceeded at any one (1) monitoring station within the affected area, unless there is a current forecast of meteorological improvement within the next twenty-four (24) hours; and

C. Meteorological conditions are such that the pollutant concentrations can be expected to remain or reoccur at the previously mentioned levels during the next twenty-four (24) or more hours or increase unless control actions are taken.

2. The following are red alert procedures:

A. All affected governmental control agencies shall be notified that red alert conditions exist and that coordination of action is required;

B. All hospitals within the affected area shall be notified that red alert conditions exist;

C. The frequency of air monitoring shall be increased at all monitoring stations which are not continuous at intervals not exceeding one (1) hour, with continual hourly review at a central control location, if this equipment is available and it is deemed necessary by the director;

D. The general public shall be informed through the news media that a red alert exists, the geographical area(s) where the alert is applicable, the emission and type of

source(s) that initiated the alert, individual abatement actions which will help alleviate the problem, and encourage those with respiratory ailments or heart conditions to take the most appropriate and expedient precautions;

E The director shall request very emphatically through the news media that all unnecessary use of automobiles be restricted and that all entertainment functions and facilities be closed; and

F. No open burning will be allowed anywhere within the affected area.]

Table C		
Procedures		
Red (151-200)	Purple (201-300)	Maroon (301-500)
The general public shall be informed through the news media that an alert of this level exists, the geographical area(s) where the alert is applicable, the emission and type of source(s) that initiated the alert, individual abatement actions that will help alleviate the problem, and encourage those with respiratory ailments or heart conditions to take the most appropriate and expedient precautions.	The general public shall be informed through the news media that an alert of this level exists, the geographical area(s) where the alert is applicable, the emission and type of source(s) that initiated the alert, individual abatement actions that will help alleviate the problem, and encourage those with respiratory ailments or heart conditions to take the most appropriate and expedient precautions.	The general public shall be informed through the news media that an alert of this level exists, the geographical area(s) where the alert is applicable, the emission and type of source(s) that initiated the alert, individual abatement actions that will help alleviate the problem, and encourage those with respiratory ailments or heart conditions to take the most appropriate and expedient precautions.
All affected governmental control agencies shall be notified of the existing alert level and that coordination of action is required.	All affected governmental control agencies shall be notified of the existing alert level and that coordination of action is required.	All affected governmental control agencies shall be notified of the existing alert level and that coordination of action is required.
All hospitals within the affected area shall be notified of the existing alert level and be prepared for an increase in the number of patients seeking treatment.	All hospitals within the affected area shall be notified of the existing alert level and be prepared for an increase in the number of patients seeking treatment.	All hospitals within the affected area shall be notified of the existing alert level and be prepared for an increase in the number of patients seeking treatment.
The frequency of air monitoring shall be increased at all monitoring stations that are not continuous at intervals not exceeding one (1) hour with continual hourly review at a central control location, if this equipment is available and it is deemed necessary by the director.	The frequency of air monitoring shall be increased at all monitoring stations that are not continuous at intervals not exceeding one (1) hour with continual hourly review at a central control location, if this equipment is available and it is deemed necessary by the director.	The frequency of air monitoring shall be increased at all monitoring stations that are not continuous at intervals not exceeding one-half (1/2) hour with continual half-hour review at a central control location, if this equipment is available and it is deemed necessary by the director.
All open burning shall cease throughout the affected area.	All open burning and incineration shall cease throughout the affected area.	All open burning and incineration shall cease throughout the affected area.

<p>The general public shall be requested through the news media to restrict the unnecessary use of motor vehicles.</p>	<p>The general public shall be told through the news media that local vehicular traffic shall avoid certain areas and all unnecessary use of motor vehicles is restricted. Nonlocal vehicular traffic may be diverted around the affected area depending upon which pollutant(s) caused the existing conditions.</p>	<p>The use of motor vehicles is prohibited except in emergencies with the approval of local or state police.</p>
	<p>Airlines operating within the purple alert area shall be notified that those conditions exist and that a reduction of flights out of the airport may be required.</p>	<p>All airplane flights originating within the area of the maroon emergency alert shall be cancelled.</p>
	<p>If requested by the director, facilities that are sources of air contaminant emissions are required to file alert plans in accordance with section (4) of this rule and shall be prepared to implement the plan upon notification by the director in the event of a purple alert.</p>	<p>If requested by the director, facilities that are sources of air contaminant emissions are required to file alert plans in accordance with section (4) of this rule and shall be prepared to implement the plan upon notification by the director in the event of a maroon emergency alert.</p>
		<p>All places of employment described as follows shall immediately cease operation during a maroon emergency alert: mining and quarrying; contract construction work; wholesale trade establishments; schools and libraries; governmental agencies except those needed to administer the air pollution alert program and other essential agencies determined by the director to be vital for public safety and welfare and needed to administer the provisions of this rule; retail trade stores except those dealing primarily in sale of food or pharmacies; banks, real estate agencies, insurance offices, and similar business; laundries, cleaners and dryers, beauty and barber shops, and photographic studios; amusement, recreational, gaming, and entertainment service establishments; automobile repair and automobile service garages; and advertising offices, consumer credit reporting, adjustment and collection agencies, printing and duplicating services, rental agencies, and commercial testing laboratories.</p>
		<p>All manufacturing facilities except those required to submit alert plans shall institute action that will result in maximum reduction of air contaminants from their operations by ceasing, curtailing, or postponing operations to the extent possible without causing injury to persons or damage to equipment.</p>

[(D) Purple Alert

1. Purple alert procedures shall be initiated by the director if the following conditions are met:

A. An Air Stagnation Advisory is in effect; and
B. The purple alert AQI value is equaled or exceeded at any one (1) monitoring station within the affected area.

2. The purple alert also can be initiated if—

A. The purple alert AQI value is equaled or exceeded as the arithmetic mean for twelve (12) consecutive hours and an Air Stagnation Advisory is in effect; or

B. The red alert AQI value is equaled or exceeded as the arithmetic mean for twenty-four (24) consecutive hours and a forecast of stagnation for the following twelve (12) hours is received.

3. The following are purple alert procedures:

A. All affected governmental control agencies shall be notified that purple alert conditions exist and that coordination of action is required;

B. All hospitals within the affected area shall be notified that purple alert conditions exist;

C. The frequency of air monitoring shall be increased at all monitoring stations which are not continuous at intervals not exceeding one (1) hour with continual hourly review at a central control location, if this equipment is available and it is deemed necessary by the director;

D. The general public shall be informed through the news media that a purple alert exists, the geographical area(s) where the alert is applicable, the emission and type of source(s) that initiate the alert, individual abatement actions which will help alleviate the problem and encourage those with respiratory ailments or heart conditions to take the most appropriate and expedient precautions;

E. Airlines operating within the purple alert area shall be notified that those conditions exist and that a reduction of flights out of the airport may be required;

F. Nonlocal vehicular traffic may be diverted around the purple alert area depending upon which pollutant(s) caused the alert;

G. Local vehicular traffic, through the news media, shall be told to avoid certain areas and emphatically told to restrict nonessential trips;

H. All incineration and open burning shall cease throughout the area; and

I. Facilities which are sources of air contaminant emissions and are required to file approved alert plans with the director for purple alert conditions shall initiate these plans upon notification by the director (see paragraph (3)(D)4.).

4. Purple alert plan objectives. AQI breakpoints from two hundred one to three hundred (201–300).

A. Air contaminant source. Electric power generating facilities—requirements for plan.

(I) Reduction of emission by utilization of fuels having low ash and sulfur content. Soot blowing and boiler lancing to be allowed only during periods of high atmospheric turbulence (12:00 noon to 4:00 p.m.).

(II) Reduction of emissions by diverting electric power generation to facilities outside of area for which the alert is called.

B. Air contaminant source. Process steam generating facilities—requirements for plan.

(I) Reduction of emissions by utilization of fuels having low ash and sulfur content. Soot blowing and boiler lancing to be allowed only during periods of high atmospheric turbulence (12:00 noon to 4:00 p.m.).

(II) Reduction of steam load demands consistent with continuing the operation of the plant.

C. Air contaminant source. Manufacturing industries of the following Standard Industrial Classification Manual (SIC) group designations: grain industries, group 20; paper

and allied products industries, group 26; chemicals and allied products industries, group 28; petroleum refining and related industries, group 29; stone, glass, clay and concrete product industries, group 32; primary metal industries, group 33—requirements for plan.

(I) Curtailing, postponing or deferring production and allied operations. Stopping all trade waste disposal practices which emit particles, gases, vapors or malodorous substances including incineration.

(II) Reducing heat load demands for processing to a minimum.

D. Air contaminant source. Other manufacturing facilities required to submit alert plans by the director—requirements for plan.

(I) Reduction of air contaminant emissions by curtailing or deferring production and allied operations. Stopping of all trade waste disposal practices which emit particles, gases, vapors or malodorous substances including incineration.

(II) Reduction of heat load demands for processing to a minimum.

E. Air contaminant source. Private, public and commercial refuse disposal operations—requirement for plan.

(I) Stopping of all open burning including disposal of trees and burning at fire-fighting schools, except as required for disposal of hazardous materials or other emergency needs.

(II) Operation of incinerators shall be limited to the hours between 10:00 a.m. and 2:00 p.m.

F. Air contaminant source. Transportation—requirement for plan. The unnecessary operation of any motor vehicle should be restricted.

(E) Maroon Emergency Alert.

1. Maroon emergency alert procedures shall be initiated by the director, if the following conditions are met:

A. An Air Stagnation Advisory is in effect; and

B. The maroon emergency alert AQI value is equaled or exceeded at any one (1) monitoring station within the advisory area.

2. The maroon emergency procedures can also be initiated if—

A. The maroon emergency alert AQI value is equaled or exceeded as the arithmetic mean of twelve (12) consecutive hours and a forecast of stagnation for the following twelve (12) hours is received;

B. The purple alert AQI value is equaled or exceeded as the arithmetic mean for twenty-four (24) hours and a forecast of stagnation for the following twelve (12) hours is received; or

C. The red alert AQI value is equaled or exceeded as the arithmetic mean for thirty-six (36) hours and a forecast of stagnation for the following twelve (12) hours is received.

3. The following are maroon emergency alert procedures:

A. All affected governmental control agencies shall be notified that a maroon emergency alert exists and that coordination of action is required;

B. All hospitals within the affected area shall be notified that a maroon emergency alert exists and to be so prepared;

C. The frequency of air monitoring shall be increased at all monitoring stations which are not continuous at intervals not exceeding one-half (1/2) hour with continual half-hour review at a central control location, if this equipment is available and it is deemed necessary by the director;

D. Open burning and incineration shall cease throughout the area;

E. Facilities which are sources of air contaminant emissions and are required to have filed approved plans with

the director shall initiate these plans upon notification by the director or his/her representative that air pollution emergency conditions exist (see paragraph (3)(E)4.);

F. The use of motor vehicles is prohibited except in emergencies with the approval of local or state police;

G. All manufacturing facilities except those listed in subparagraph (3)(E)3.E shall institute action that will result in maximum reduction of air contaminants from their operations by ceasing, curtailing or postponing operations to the extent possible without causing injury to persons or damage to equipment;

H. All airplane flights originating within the area of the maroon emergency alert shall be cancelled;

I. All places of employment described as follows immediately shall cease operation during the maroon emergency alert:

(I) Mining and quarrying;

(II) Contract construction work;

(III) Wholesale trade establishments;

(IV) Schools and libraries;

(V) Governmental agencies except those needed to administer air pollution alert program and other essential agencies determined by the director to be vital for public safety and welfare and needed to administer the provisions of this rule;

(VI) Retail trade stores except those dealing primarily in sale of food or pharmacies;

(VII) Banks, real estate agencies, insurance offices and similar business;

(VIII) Laundries, cleaners and dryers, beauty and barber shops and photographic studios;

(IX) Amusement, recreational, gaming and entertainment service establishments;

(X) Automobile repair and automobile service garages; and

(XI) Advertising offices, consumer credit reporting, adjustment and collection agencies, printing and duplicating services, rental agencies and commercial testing laboratories; and

J. The general public shall be informed through the news media that a maroon emergency alert exists, the geographical area(s) where the alert is applicable, the emission and type of source(s) that initiated the alert, individual abatement actions which will help alleviate the problem and encourage those with respiratory ailments or heart conditions to take the most appropriate and expedient precautions.

4. Maroon emergency alert plan objectives. AQI breakpoints from three hundred one to four hundred (301–400). All purple alert plans shall be continued. In addition, the following measures shall be taken:

A. Air contaminant source. Process steam generating facilities—requirements for plan.

(I) Maximum reduction of air contaminant emissions by utilization of fuels having the lowest ash and sulfur content.

(II) Maximum utilization of periods of high atmospheric turbulence (12:00 noon to 4:00 p.m.) for soot blowing and boiler lancing. Prepare to implement the emergency plan submitted to the director.

B. Air contaminant source. Manufacturing industries of the following SIC group designations: grain industries, group 20; paper and allied products industries, group 26; chemical and allied products industries, group 28; petroleum refining and related industries, group 29; stone, glass, clay and concrete product industries, group 32; primary metals industries, group 33—requirements for plan.

(I) Maximum reduction of air contaminant emissions by, if necessary, postponing production and allied operations.

(II) Maximum reduction of heat load demands for processing. Prepare to implement the emergency plan submitted to the director;

C. Air contaminant source. Other manufacturing facilities required to submit alert plans by the director—requirement for plan. Maximum reduction of air contaminant emissions, if necessary, by postponing production and allied operations;

D. Air contaminant source. Private, public and commercial refuse disposal operations—requirement for plan. Stop operation of all incinerators; and

E. Air contaminant source. Transportation—requirement for plan. Car pools and public transportation must be used in place of unnecessary motor vehicle operation.

5. Maroon emergency alert plan objectives. AQI breakpoints from four hundred one to five hundred (401–500). All purple alert plans and maroon emergency alert plan from AQI breakpoints three hundred one to four hundred (301–400) shall be continued. In addition, the following measures shall be taken:

A. Air contaminant source. Process steam generating facilities—requirements for plan.

(I) Maximum reduction of air contaminant emissions by reducing heat and steam load demands to values consistent with preventing equipment damage.

(II) Maximum utilization of periods of high atmospheric turbulence (12:00 noon to 4:00 p.m.) for soot blowing and boiler lancing;

B. Air contaminant source. Manufacturing industries of the following SIC group designations: grain industries, group 20; paper and allied products industries, group 26; chemicals and allied products industries, group 28; petroleum refining and related industries, group 29; stone, glass, clay and concrete product industries, group 32; primary metals industries, group 33—requirement for plan. Elimination of air contaminant from the manufacturing operations by ceasing, curtailing, postponing or deferring production and allied operations to the extent possible without causing injury to persons or damage to equipment;

C. Air contaminant source. Other manufacturing facilities required to submit alert plans by the director—requirements for plan.

(I) Elimination of air contaminant emissions from the manufacturing operations by ceasing, curtailing, postponing, or deferring production and allied operations to the extent possible without causing injury to persons or damage to equipment.

(II) Maximum reduction of heat load demands for processing;

D. Air contaminant source. Private, public and commercial operations—requirement for plan. The following places of employment, if notified by the director, immediately shall cease operations: mining and quarrying operations; construction projects except as required to avoid emergent physical harm; manufacturing establishments except those required to have in force an air pollution alert plan; wholesale trade establishments; governmental units, except as required to implement the provisions of this rule and other operations essential to immediate protection of the public welfare and safety; retail trade and service establishments except pharmacies, food stores and other similar operations providing for emergency needs; other commercial service operations, such as those engaged in banking, insurance, real estate, advertising, and the like; educational institutions; and amusement, recreational, gaming, and entertainment facilities;

E. Air contaminant source. Transportation—requirement for plan. Motor vehicles shall only be used for private and public emergency needs.]

(4) Reporting and Record Keeping. Facilities *[which]* that are sources of air contaminant emissions and required to file *[approved]* alert plans per *[paragraphs (3)(D)4., (3)(E)4., and (3)(E)5.]* **Table C of this rule** shall file *[approved]* purple and maroon alert plans **with the director** within sixty (60) days *[with the director after request by the director to submit alert plans]* of the director's request. Alert plans shall—

(A) Address the objectives provided in Tables D, E, and F; and

(B) Include the planning necessary for implementation.

Updated alert plans shall be provided when changes to operations necessitate amending the alert plan.

Table D	
Purple Alert (201-300) Plan Objectives	
Sources	Objectives
Electric power generating facilities	Reduction of emissions by diverting electric power generation to facilities outside of area for which the alert is called.
	If applicable, reduce emissions by utilization of fuels having low ash and sulfur content. If applicable, soot blowing and boiler lancing to be allowed only during periods of high atmospheric turbulence (12:00 noon to 4:00 p.m.).
Process steam generating facilities	Reduction of steam load demands consistent with continuing the operation of the plant.
	If applicable, reduce emissions by utilization of fuels having low ash and sulfur content. If applicable, soot blowing and boiler lancing to be allowed only during periods of high atmospheric turbulence (12:00 noon to 4:00 p.m.).
Manufacturing industries of the following Standard Industrial Classification Manual (SIC) group designations: grain industries, group 20; paper and allied products industries, group 26; chemicals and allied products industries, group 28; petroleum refining and related industries, group 29; stone, glass, clay, and concrete product industries, group 32; primary metal industries, group 33	Reduction of heat load demands for processing to a minimum.
	Reduction of air contaminant emissions by curtailing, postponing, or deferring production and allied operations. Stoppage of all trade waste disposal practices that emit particles, gases, vapors, or malodorous substances including incineration.
Other manufacturing facilities required to submit alert plans by the director	Reduction of heat load demands for processing to a minimum.
	Reduction of air contaminant emissions by curtailing, postponing, or deferring production and allied operations. Stoppage of all trade waste disposal practices that emit particles, gases, vapors, or malodorous substances including incineration.
Private, public, and commercial operations	For refuse disposal, stoppage of all open burning including disposal of trees and burning at fire-fighting schools, except as required for disposal of hazardous materials or other emergency needs.
	For refuse disposal, operation of incinerators shall cease per Table C of this rule.
Transportation	See Table C of this rule for motor vehicle restrictions.

Table E	
Maroon Emergency Alert (301-400) Plan Objectives	
Sources	Objectives
Electric power generating facilities	Reduction of emissions by diverting electric power generation to facilities outside of area for which the alert is called.
	If applicable, reduce emissions by utilization of fuels having low ash and sulfur content. If applicable, soot blowing and boiler lancing to be allowed only during periods of high atmospheric turbulence (12:00 noon to 4:00 p.m.).
Process steam generating facilities	If applicable, obtain maximum reduction of air contaminant emissions by utilization of fuels having the lowest ash and sulfur content.
	If applicable, maximize use of periods of high atmospheric turbulence (12:00 noon to 4:00 p.m.) for soot blowing and boiler lancing.
Manufacturing industries of the following Standard Industrial Classification Manual (SIC) group designations: grain industries, group 20; paper and allied products industries, group 26; chemicals and allied products industries, group 28; petroleum refining and related industries, group 29; stone, glass, clay, and concrete product industries, group 32; primary metal industries, group 33	Maximum reduction of heat load demands for processing.
	Maximum reduction of air contaminant emissions by, if necessary, postponing production and allied operations. Stoppage of all trade waste disposal practices that emit particles, gases, vapors, or malodorous substances including incineration.
Other manufacturing facilities required to submit alert plans by the director	Maximum reduction of heat load demands for processing.
	Maximum reduction of air contaminant emissions by, if necessary, postponing production and allied operations. Stoppage of all trade waste disposal practices that emit particles, gases, vapors, or malodorous substances including incineration.
Private, public, and commercial operations	For refuse disposal, stoppage of all open burning including disposal of trees and burning at fire-fighting schools, except as required for disposal of hazardous materials or other emergency needs.
	For refuse disposal, operation of incinerators shall cease per Table C of this rule.
Transportation	See Table C of this rule for motor vehicle restrictions.

Table F	
Maroon Emergency Alert (401-500) Plan Objectives	
Sources	Objectives
Electric power generating facilities	Reduction of emissions by diverting electric power generation to facilities outside of area for which the alert is called.
	If applicable, reduce emissions by utilization of fuels having low ash and sulfur content. If applicable, soot blowing and boiler lancing to be allowed only during periods of high atmospheric turbulence (12:00 noon to 4:00 p.m.).
Process steam generating facilities	Maximum reduction of air contaminant emissions by reducing heat and steam load demands to values consistent with preventing equipment damage.
	If applicable, maximize use of periods of high atmospheric turbulence (12:00 noon to 4:00 p.m.) for soot blowing and boiler lancing.
Manufacturing industries of the following Standard Industrial Classification Manual (SIC) group designations: grain industries, group 20; paper and allied products industries, group 26; chemicals and allied products industries, group 28; petroleum refining and related industries, group 29; stone, glass, clay, and concrete product industries, group 32; primary metal industries, group 33	Maximum reduction of heat load demands for processing.
	Elimination of air contaminant emissions from the manufacturing operations by ceasing, curtailing, postponing, or deferring production and allied operations to the extent possible without causing injury to persons or damage to equipment.
Other manufacturing facilities required to submit alert plans by the director	Maximum reduction of heat load demands for processing.
	Elimination of air contaminant emissions from the manufacturing operations by ceasing, curtailing, postponing, or deferring production and allied operations to the extent possible without causing injury to persons or damage to equipment.
Private, public, and commercial operations	For refuse disposal, stoppage of all open burning including disposal of trees and burning at fire-fighting schools, except as required for disposal of hazardous materials or other emergency needs.
	For refuse disposal, operation of incinerators shall cease per Table C of this rule.
	The following places of employment, if notified by the director, immediately shall cease operations: mining and quarrying operations; construction projects except as required to avoid emergent physical harm; manufacturing establishments except those required to have in force an air pollution alert plan; wholesale trade establishments; governmental units, except as required to implement the provisions of this rule and other operations essential to immediate protection of the public welfare and safety; retail trade and service establishments except pharmacies, food stores, and other similar operations providing for emergency needs; other commercial service operations, such as those engaged in banking, insurance, real estate, advertising, and the like; educational institutions; and amusement, recreational, gaming, and entertainment facilities.
Transportation	See Table C of this rule for motor vehicle restrictions.

AUTHORITY: section 643.050, RSMo [2000] *Supp.* 2012. Original rule filed May 11, 1984, effective Oct. 11, 1984. Amended: Filed Jan. 5, 1988, effective April 28, 1988. Amended: Filed March 13, 2002, effective Nov. 30, 2002. Amended: Filed Sept. 24, 2009, effective May 30, 2010. Amended: Filed May 7, 2013.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: A public hearing on this proposed amendment will begin at 9:00 a.m. July 24, 2013. The public hearing will be held at the Elm Street Conference Center, 1730 East Elm Street, Lower Level, Bennett Springs Conference Room, Jefferson City, Missouri. Opportunity to be heard at the hearing shall be afforded any interested person. Interested persons, whether or not heard, may submit a written or email statement of their views until 5:00 p.m., July 31, 2013. Written comments shall be sent to Chief, Air Quality Planning Section, Missouri Department of Natural Resources' Air Pollution Control Program, PO Box 176, Jefferson City, MO 65102-0176. Email comments shall be sent to apcprulespn@dnr.mo.gov.

**Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 20—Clean Water Commission
Chapter 7—Water Quality**

PROPOSED AMENDMENT

10 CSR 20-7.015 Effluent Regulations. The department is amending sections (1), (2), (3), (4), (5), (6), and subsection (7)(A), and sections (8) and (9).

PURPOSE: This amendment will 1) update bacteria limits and monitoring requirements; 2) revise language regarding "bypasses" to align with federal definition; 3) require quarterly effluent monitoring of nutrient concentrations at large wastewater treatment facilities; 4) provide clarification regarding whole effluent toxicity testing requirements; 5) allow for electronic reporting via web-based systems (once available); 6) include provisions for developing effluent limits with regard to several situations such as discharges to impaired waters, tiered limits which allow higher discharge concentrations during higher stream flow rates, and the use of local stream data to adjust effluent limits; 7) reduce monitoring frequency for facilities that consistently comply with effluent limits; 8) eliminate schedule to comply with phosphorus effluent limits for discharges to Table Rock Lake and Lake Taneycomo because the dates have already passed; 9) require limits for the discharge of nitrates that may impact specific drinking water wells; 10) specify that operating permits may include schedules of compliance in accordance with federal regulations; 11) revert to pH effluent limits that were in a previous version of the regulation; 12) allow alternate compliance points for discharges to subsurface waters; and 13) reorganize and clarify several elements of the rule.

(1) Designations of Waters of the State.

(A) For the purpose of this rule, the waters of the state are divided into the following categories:

1. The Missouri and Mississippi Rivers (**section (2) of this rule**);

2. Lakes and reservoirs, including natural lakes and any impoundments created by the construction of a dam across any waterway or watershed. An impoundment designed for or used as a disposal site for tailings or sediment from a mine or mill shall be considered a wastewater treatment device and not a lake or reservoir. Releases to lakes and reservoirs include discharges into streams one-

half (1/2) stream mile (.80 km) before the stream enters the lake as measured to its normal full pool (**section (3) of this rule**);

3. A losing stream is a stream which distributes thirty percent (30%) or more of its flow through natural processes such as through permeable geologic materials into a bedrock aquifer within two (2) miles/['] flow distance downstream of an existing or proposed discharge. Flow measurements to determine percentage of water loss must be corrected to approximate the seven (7)-day Q_{10} stream flow. If a stream bed or drainage way has an intermittent flow or a flow insufficient to measure in accordance with this rule, it may be determined to be a losing stream on the basis of channel development, valley configuration, vegetation development, dye tracing studies, bedrock characteristics, geographical data, and other geological factors. Only discharges which in the opinion of the Missouri Department of Natural Resources (**department**) reach the losing section and which occur within two (2) miles upstream of the losing section of the stream shall be considered releases to a losing stream. A list of known losing streams is available in the Water Quality Standards, 10 CSR 20-7.031 Table J—Losing Streams. Other streams may be determined to be losing by the department (**section (4) of this rule**);

4. Metropolitan no-discharge streams. These streams and the limitations on discharging to them are listed in [*the commission's Water Quality Standards*] **Table F** of 10 CSR 20-7.031 **Water Quality Standards**. This rule shall in no way change, amend, or be construed to allow a violation of the existing or future water quality standards (**section (5) of this rule**);

5. Special streams—[*wild and scenic rivers, Ozark National Scenic Riverways,*] **Outstanding National Resource Waters** and **Outstanding State Resource Waters**, as listed in **Tables D and E of 10 CSR20-7.031**(**section (6) of this rule**);

6. Subsurface waters in aquifers (**section (7) of this rule**); and

7. All other waters except as noted in paragraphs (1)(A)1.–6. of this rule (**section (8) of this rule**).

(B) **Sections (2) through (8) of this rule establish requirements for discharges to the waters specified in these sections, and the requirements of section (9) of this rule apply to all discharges. The requirements of this rule do not apply to stormwater discharges; effluent limits for stormwater discharges are prescribed in 10 CSR 20-6.200 Storm Water Regulations.**

(2) Effluent Limitations for the Missouri and Mississippi Rivers. The following limitations represent the maximum amount of pollutants which may be discharged from any point source, water contaminant source, or wastewater treatment facility.

(A) Discharges from wastewater treatment facilities which receive primarily domestic waste or from publicly-owned treatment works (POTWs) shall undergo treatment sufficient to conform to the following limitations:

1. Biochemical Oxygen Demand₅ (BOD₅) and Total Suspended Solids (TSS) equal to or less than a monthly average of thirty milligrams per liter (30 mg/L) and a weekly average of forty-five milligrams per liter (45 mg/L);

2. pH shall be maintained in the range from six [*and one-half*] to nine [(6.5–9.0)] (**6–9**) standard units;

3. Exceptions to paragraphs (2)(A)1. and 2. of this rule are as follows:

A. If the facility is a wastewater lagoon, the TSS shall be equal to or less than a monthly average of eighty milligrams per liter (80 mg/L) and a weekly average of one hundred twenty milligrams per liter (120 mg/L) and the pH shall be maintained above six [*and one-half*] (6.5)] **6.0**, and the BOD₅ shall be equal to or less than a monthly average of forty-five milligrams per liter (45 mg/L) and a weekly average of sixty-five milligrams per liter (65 mg/L);

B. If the facility is a trickling filter plant the BOD₅ and TSS shall be equal to or less than a monthly average of forty-five milligrams per liter (45 mg/L) and a weekly average of sixty-five milligrams per liter (65 mg/L);

C. Where the use of effluent limitations set *[forward]* forth in this section is known or expected to produce an effluent that will endanger or violate water quality, the department will set specific effluent limitations for individual dischargers to protect the water quality of the receiving streams. When a waste load allocation *[for a total maximum daily load study]* is conducted for a stream or stream segment, all permits for discharges in the study area shall be modified to reflect the limits established in the study;

D. The department may require more stringent limitations than authorized in *[subsection (3)(A)]* paragraphs (2)(A)1. and 2. and subparagraphs (2)(A)3.A., B., and C. of this rule under the following conditions:

(I) If the facility is an existing facility, the department may set the BOD₅ and TSS limits based upon an analysis of the past performance, rounded up to the next five milligrams per liter (5 mg/L) range; and

(II) If the facility is a new facility, the department may set the BOD₅ and TSS limits based upon the design capabilities of the plant considering geographical and climatic conditions;

(a) A design capability study has been conducted for new lagoon systems. The study reflects that the effluent limitations should be BOD₅ equal to or less than a monthly average of forty-five milligrams per liter (45 mg/L) and a weekly average of sixty-five milligrams per liter (65 mg/L) and TSS equal to or less than a monthly average of seventy milligrams per liter (70 mg/L) and a weekly average of one hundred ten milligrams per liter (110 mg/L).

(b) A design capability study has been conducted for new trickling filter systems and the study reflects that the effluent limitations should be BOD₅ and TSS equal to or less than a monthly average of forty milligrams per liter (40 mg/L) and a weekly average of sixty milligrams per liter (60 mg/L);

[4. E coli: Discharges to segments designated as whole body contact recreational or secondary contact recreational in Table H of 10 CSR 20-7.031 shall not exceed the water quality E coli counts established in 10 CSR 20-7.031(4)(C)2. Facilities without disinfected effluent shall comply with the implementation schedule found in subsection (9)(H) of this rule. During periods of wet weather, a temporary suspension of accountability for bacteria standards may be established through the process described in subsection (9)(I) of this rule;]

[5.]4. Sludges removed in the treatment process shall not be discharged. Sludges shall be routinely removed from the wastewater treatment facility and disposed of or used in accordance with a sludge management practice approved by the department; and

[6.]5. When the wastewater treatment process causes nitrification which affects the BOD₅ reading, the permittee can petition the department to substitute carbonaceous BOD₅ in lieu of regular BOD₅ testing. If the department concurs that nitrification is occurring, the department will set a carbonaceous BOD₅ at five milligrams per liter (5 mg/L) less than the regular BOD₅ in the operating permit.

(C) Monitoring Requirements.

1. The department will develop a wastewater and sludge sampling program based on design flow that shall require, at a minimum, one (1) wastewater sample per year for each fifty thousand (50,000) gallons per day (gpd) of effluent, or fraction thereof, except that—

A. Point sources that discharge less than twenty-five thousand (25,000) gpd may only be required to submit an annual report;

B. *[Point sources that discharge more than one (1) million gallons per day (mgd) will be required, at a minimum, to collect twenty (20) wastewater samples per year unless the applicant can show that the wastewater has a consistent quality, such as once through cooling water or mine dewatering, then the department may set less frequent sampling requirements]* The department may establish less frequent sampling requirements for point sources that produce an effluent that does not exhibit high variability and consistently complies with the applicable effluent limit; and

C. Sludge sampling will be established in the permit~~;~~ and~~].~~

[D. A minimum of one (1) sample shall be collected for E coli analysis each week during the recreational season from April 1 through October 31. Compliance with the E coli water quality standard established in paragraph (4)(C)2. of 10 CSR 20-7.031 shall be determined each calendar month by calculating the geometric mean of all of the samples collected each calendar month.]

2. Sampling frequency shall be *[spread evenly throughout the discharge year. This means that a point source with a continuous discharge shall collect samples on a regular evenly spaced schedule, while point sources with seasonal discharges shall collect samples evenly spaced during the season of discharge]* representative of the discharge during the period the sampling covers (daily, weekly, monthly, seasonally, etc.).

3. Sample types shall be as follows:

A. Samples collected from lagoons may be grab samples;

B. Samples collected from mechanical plants shall be twenty-four (24)-hour composite samples, unless otherwise specified in the operating permit; and

C. Sludge samples will be grab samples unless otherwise specified in the operating permit.

4. The monitoring frequency and sample types stated in *[paragraph (2)(D)3.]* subsection (2)(C) of this rule are minimum requirements. The permit writer shall establish monitoring frequencies and sampling types to fulfill the site-specific informational needs of the department.

(3) Effluent Limitations for the Lakes and Reservoirs.

(A) The following limitations represent the maximum amount of pollutants which may be discharged from any point source, water contaminant source, or wastewater treatment facility to a lake or reservoir designated in 10 CSR 20-7.031 as L2 and L3 which is publicly owned. Releases to lakes and reservoirs include discharges into streams one-half (1/2) stream mile (.80 km) before the stream enters the lake as measured to its normal full pool.

1. Discharges from wastewater treatment facilities which receive primarily domestic waste or from POTWs shall undergo treatment sufficient to conform to the following limitations:

A. BOD₅ and TSS equal to or less than a monthly average of twenty milligrams per liter (20 mg/L) and a weekly average of thirty milligrams per liter (30 mg/L);

B. pH shall be maintained in the range from six *[and one-half]* to nine *[(6.5–9.0)]* (6–9) standard units;

[C. E coli: Discharges to lakes designated as whole body contact recreational or secondary contact recreational in Table G of 10 CSR 20-7.031 shall not exceed the water quality E coli counts established in paragraph (4)(C)2. of 10 CSR 20-7.031. Facilities without disinfected effluent shall comply with the implementation schedule found in subsection (9)(H) of this rule. During periods of wet weather, a temporary suspension of accountability for bacteria standards may be established through the process described in subsection (9)(I) of this rule;]

[D.]C. Where the use of effluent limitations set forth in section (3) of this rule *[is known or expected to produce an effluent that will endanger or violate water quality]* are reasonably expected to exceed applicable water quality standards, the department may either—conduct waste load allocation studies in order to arrive at a limitation which protects the water quality of the state or set specific effluent limitations for individual dischargers to protect the water quality of the receiving streams. When a waste load allocation study is conducted for a stream or stream segment, all permits for discharges in the study area shall be modified to reflect the limits established in the waste load allocation study;

[E.]D. Sludges removed in the treatment process shall not be discharged. Sludges shall be routinely removed from the wastewater

treatment facility and disposed of or used in accordance with a sludge management practice approved by the department; and

[F./E. When the wastewater treatment process causes nitrification which affects the BOD₅ reading, the permittee can petition the department to substitute carbonaceous BOD₅ in lieu of regular BOD₅ testing. If the department concurs that nitrification is occurring, the department will set a carbonaceous BOD₅ at five milligrams per liter (5 mg/L) less than the regular BOD₅ in the operating permit.

(B) Monitoring Requirements.

1. The department will develop a wastewater and sludge sampling program based on design flow that will require, at a minimum, one (1) wastewater sample per year for each twenty-five thousand (25,000) gpd of effluent, or fraction thereof, except that—

A. Point sources that discharge less than five thousand (5,000) gpd may only be required to submit an annual report;

B. *[Point sources that discharge more than one point three (1.3) mgd will be required, at a minimum, to collect fifty-two (52) wastewater samples per year unless the applicant can show that the wastewater has a consistent quality, such as once through cooling water or mine dewatering, then the department may set less frequent sampling requirements]* The department may establish less frequent sampling requirements for point sources that produce an effluent that does not exhibit high variability and consistently complies with the applicable effluent limit; and

C. Sludge sampling will be established in the permit; *and*].

[D. A minimum of one (1) sample shall be collected for E coli analysis each week during the recreational season from April 1 through October 31. Compliance with the E coli water quality standard established in paragraph (4)(C)2. of 10 CSR 20-7.031 shall be determined each calendar month by calculating the geometric mean of all of the samples collected each calendar month.]

2. Sampling frequency shall be *[spread evenly throughout the discharge year. This means that a point source with a continuous discharge shall collect samples on a regular evenly spaced schedule, while point sources with seasonal discharges shall collect samples evenly spaced during the season of discharge]* representative of the discharge during the period the sampling covers (daily, weekly, monthly, seasonally, etc.).

3. Sample types shall be as follows:

A. Samples collected from lagoons may be grab samples;

B. Samples collected from mechanical plants shall be twenty-four (24)-hour composite samples, unless otherwise specified in the operating permit; and

C. Sludge samples shall be grab samples unless otherwise specified in the operating permit.

4. The monitoring frequency and sample types stated in *[paragraph (3)(B)3.] subsection (3)(B)* of this rule are minimum requirements. The permit writer shall establish monitoring frequencies and sampling types to fulfill the site-specific informational needs of the department.

(F) In addition to other requirements in this section, discharges to Table Rock Lake watershed, defined as hydrologic units numbered 11010001 and 11010002, shall not exceed five-tenths milligrams per liter (0.5 mg/L) of phosphorus as a monthly average *[according to the following schedules]* except those *[as noted in paragraph (3)(F)5. of this rule.*

1. *Any new discharge shall comply with this new requirement upon the start of operations;*

2. *Any existing discharge, or any sum of discharges operated by a single continuing authority, with a design flow of one (1.0) mgd or greater shall comply no later than November 30, 2003;*

3. *Any existing discharge, or any sum of discharges operated by a single continuing authority, with a design flow of one-tenth (0.1) mgd or greater, but less than one (1.0)*

mgd, shall comply no later than November 30, 2007, and shall not exceed one milligram per liter (1.0 mg/L) as a monthly average as soon as possible and no later than November 30, 2003;

4. *Any existing discharge with a design flow of twenty-two thousand five hundred (22,500) gpd or greater, but less than one tenth (0.1) mgd, shall comply no later than November 30, 2007;*

5. *Any* existing discharges with *[a]* design flows of less than twenty-two thousand five hundred (22,500) gpd permitted prior to November 30, 1999, *[shall be exempt from this requirement]* unless the design flow is increased; *and*

6. *Any existing discharge in which the design flow is increased shall comply according to the schedule applicable to the final design flow].*

(4) Effluent Limitations for Losing Streams.

(B) If the department agrees to allow a *[release]* discharge from a wastewater treatment facility to a losing stream, the permit will be written using the limitations contained in subsections (4)(B) and (C) of this rule. Discharges from private wastewater treatment facilities which receive primarily domestic waste, industrial sources that treat influents containing significant amounts of organic loading, or *[from]* POTWs permitted under this section shall undergo treatment sufficient to conform to the following limitations:

1. BOD₅ equal to or less than a monthly average of ten milligrams per liter (10 mg/L) and a weekly average of fifteen milligrams per liter (15 mg/L);

2. TSS equal to or less than a monthly average of fifteen milligrams per liter (15 mg/L) and a weekly average of twenty milligrams per liter (20 mg/L);

3. pH shall be maintained in the range from six *[and one-half]* to nine *[(6.5–9.0)] (6–9)* standard units;

4. *E coli:* Discharges shall not exceed the water quality *E coli* counts established in paragraph (4)(C)2. of 10 CSR 20-7.031;

5. 4. All chlorinated effluent discharges to losing streams or within two (2) stream miles flow distance upstream of a losing stream shall also be dechlorinated prior to discharge;

6. 5. Sludges removed in the treatment process shall not be discharged. Sludges shall be routinely removed from the wastewater treatment facility and disposed of or used in accordance with a sludge management practice approved by the department; *and*

7. 6. When the wastewater treatment process causes nitrification which affects the BOD₅ reading, the permittee can petition the department to substitute carbonaceous BOD₅ in lieu of regular BOD₅ testing. If the department concurs that nitrification is occurring, the department will set a carbonaceous BOD₅ at five milligrams per liter (5 mg/L) less than the regular BOD₅ in the operating permit.; *and*

7. For situations in which nitrates in a discharge can be reasonably expected to impact specific drinking water wells, the concentration of nitrates in the discharge shall be limited to an average monthly limit of ten milligrams per liter (10 mg/L) as nitrogen and a maximum daily limit of twenty milligrams per liter (20 mg/L). Applicants may conduct a study in the same manner as the Missouri Risk-Based Corrective Action Technical Guidance published in 2006 to determine if nitrate limits are necessary to protect groundwater. In such cases, applicants shall submit a study plan for approval prior to the study, and submit all findings as part of their permit application.

(C) Monitoring Requirements.

1. The department will develop a wastewater and sludge sampling program based on design flow that shall require, at a minimum, one (1) wastewater sample per year for each twenty-five thousand (25,000) gpd of effluent, or fraction thereof, except that—

A. Point sources that discharge less than five thousand (5,000) gpd may only be required to submit an annual report;

B. *[Point sources that discharge more than one point three (1.3) mgd will be required, at a minimum, to collect fifty-two (52) wastewater samples per year unless the applicant can show that the wastewater has a consistent quality, such as once through cooling water or mine dewatering, then the department may set less frequent sampling requirements]* The department may establish less frequent sampling requirements for point sources that produce an effluent that does not exhibit high variability and consistently complies with the applicable effluent limit; and

C. Sludge samples will be established in the permit; and/.

[D. A minimum of one (1) sample shall be collected for E coli analysis each week during the recreational season from April 1 through October 31. Compliance with the E coli water quality standard established in paragraph (4)(C)2. of 10 CSR 20-7.031 shall be determined each calendar month by calculating the geometric mean of all of the samples collected each calendar month.]

2. Sampling frequency shall be *[spread evenly throughout the discharge year. This means that a point source with a continuous discharge shall collect samples on a regular evenly spaced schedule, while point sources with seasonal discharges shall collect samples evenly spaced during the season of discharge]* representative of the discharge during the period the sampling covers (daily, weekly, monthly, seasonally, etc.).

3. Sample types shall be as follows:

A. Samples collected from lagoons and recirculating sand filters may be grab samples;

B. Samples collected from mechanical plants shall be twenty-four (24)-hour composite samples, unless otherwise specified in the operating permit; and

C. Sludge samples shall be a grab sample unless otherwise specified in the operating permit.

4. The monitoring frequency and sample types stated in *[paragraph (4)(C)3.] subsection (4)(C)* of this rule are minimum requirements. The permit writer shall establish monitoring frequencies and sampling types to fulfill the site-specific informational needs of the department.

(5) Effluent Limitations for Metropolitan No-Discharge Streams.

[(B) All permits for discharges to these streams shall be written to ensure compliance with the Water Quality Standards.]

[(C)(B) Monitoring Requirements.]

1. The department will develop a wastewater and sludge sampling program based on design flow that shall require, at a minimum, one (1) wastewater sample per year for each twenty-five thousand (25,000) gpd of effluent, or fraction thereof, except that—

A. Point sources that discharge less than five thousand (5,000) gpd may only be required to submit an annual report;

B. Point sources that discharge more than one point three (1.3) mgd will be required, at a minimum, to collect fifty-two (52) wastewater samples per year; and

C. Sludge sampling will be established in the permit; and/.

[D. A minimum of one (1) sample shall be collected for E coli analysis each week during the recreational season from April 1 through October 31. Compliance with the E coli water quality standard established in paragraph (4)(C)2. of 10 CSR 20-7.031 shall be determined each calendar month by calculating the geometric mean of all of the samples collected each calendar month.]

2. Sampling frequency shall be *[spread evenly throughout the discharge year. This means that a point source with a continuous discharge shall collect samples on a regular evenly spaced schedule, while point sources with seasonal discharges shall collect samples evenly spaced during the season of discharge]* representative of the discharge during the

period the sampling covers (daily, weekly, monthly, seasonally, etc.).

3. Sample types shall be as follows:

A. Samples collected from lagoons may be grab samples;

B. Samples collected from mechanical plants shall be twenty-four (24)-hour composite samples, unless otherwise specified in the operating permit; and

C. Sludge samples shall be a grab sample unless otherwise specified in the operating permit.

4. The monitoring frequency and sample types stated in *[paragraph (5)(C)3.] subsection (5)(B)* of this rule are minimum requirements. The permit writer shall establish monitoring frequencies and sampling types to fulfill the site-specific informational needs of the department.

(6) Effluent Limitations for Special Streams.

(A) Limits for *[Wild and Scenic Rivers and Ozark National Scenic Riverways] Outstanding National Resource Waters as listed in Table D of 10 CSR 20-7.031* and Drainages Thereto.

1. The following limitations represent the maximum amount of pollutants which may be discharged from any point source, water contaminant source, or wastewater treatment facility to waters included in this section.

2. Discharges from wastewater treatment facilities, which receive primarily domestic waste, or from POTWs are limited as follows:

A. New releases from any source are prohibited;

B. Discharges from sources that existed before June 29, 1974, or if additional stream segments are placed in this section, discharges that were permitted at the time of the designation will be allowed.

3. Industrial, agricultural, and other non-domestic contaminant sources, point sources, or wastewater treatment facilities which are not included under subparagraph (6)(A)2.B. of this rule shall not be allowed to discharge. Agrichemical facilities shall be designed and constructed so that all bulk liquid pesticide nonmobile storage containers and all bulk liquid fertilizer nonmobile storage containers are located within a secondary containment facility. Dry bulk pesticides and dry bulk fertilizers shall be stored in a building so that they are protected from the weather. The floors of the buildings shall be constructed of an approved design and material(s). At an agrichemical facility, all transferring, loading, unloading, mixing, and repackaging of bulk agrichemicals shall be conducted in an operational area. All precipitation collected in the operational containment area or secondary containment area as well as process generated wastewater shall be stored and disposed of in a no-discharge manner.

4. Monitoring requirements.

A. The department will develop a wastewater and sludge sampling program based on design flow that will require, at a minimum, one (1) wastewater sample per year for each twenty-five thousand (25,000) gpd of effluent, or fraction thereof, except that—

(I) Point sources that discharge less than five thousand (5,000) gpd may only be required to submit an annual report;

(II) Point sources that discharge more than one point three (1.3) mgd will be required at a minimum to collect fifty-two (52) wastewater samples per year; and

(III) Sludge sampling will be established in the permit.

B. Sampling frequency shall be *[spread evenly throughout the discharge year. This means that a point source with a continuous discharge shall collect samples on a regular evenly spaced schedule, while point sources with seasonal discharges shall collect samples evenly spaced during the season of discharge]* representative of the discharge during the period the sampling covers (daily, weekly, monthly, seasonally, etc.).

C. Sample types shall be as follows:

(I) Samples collected from lagoons may be grab samples;

(II) Samples collected from mechanical plants shall be twenty-four (24)-hour composite samples, unless otherwise specified in the operating permit; and

(III) Sludge samples shall be a grab sample unless otherwise specified in the operating permit.

D. The monitoring frequency and sample types stated in paragraph (6)(D)3.(A)4. of this rule are minimum requirements. The permit writer shall establish monitoring frequencies and sampling types to fulfill the site-specific informational needs of the department.

(B) Limits for Outstanding State Resource Waters *[as per Water Quality Standards]* as listed in Table E of 10 CSR 20-7.031.

1. Discharges shall not cause the current water quality in the streams to be lowered.

2. Discharges will be permitted as long as the requirements of paragraph (6)(B)1. of this rule are met and the limitations in section (8) of this rule are not exceeded.

(7) Effluent Limitations for Subsurface Waters.

(A) No person shall release any water into aquifers, store or dispose of water in a way which causes or permits it to enter aquifers either directly or indirectly unless it meets the appropriate groundwater protection criteria set in 10 CSR 20-7.031, Table A at a point ten feet (10') under the release point, **or other compliance point based on site specific considerations**, except as provided in subsections (7)(E) and (F) of this rule. The permit writer shall review the complete application and other data to determine which parameter to include in the permit.

(8) Effluent Limitations for All Waters, Except Those in Paragraphs (1)(A)1.-6. of This Rule. The following limitations represent the maximum amount of pollutants which may be discharged from any point source, water contaminant source, or wastewater treatment facility.

(A) Discharges from wastewater treatment facilities which receive primarily domestic waste or POTWs shall undergo treatment sufficient to conform to the following limitations:

1. BOD₅ and TSS equal to or less than a monthly average of thirty milligrams per liter (30 mg/L) and a weekly average of forty-five milligrams per liter (45 mg/L);

2. pH shall be maintained in the range from six *[and one-half]* to nine *[(6.5-9.0)]* (6-9) standard units;

3. The limitations of paragraphs (8)(B)(A)1. and 2. of this rule will be effective unless *[a water quality impact study has been conducted by the department, or conducted by the permittee and approved by the department, showing that]* an alternate limitation will not cause violations of the Water Quality Standards or impairment of the uses in the standards. When *[a water quality impact study]* an **Antidegradation Review** has been completed *[to the satisfaction of the department]* for new or expanded discharges, the following alternate limitation may also be allowed:

A. If the facility is a wastewater lagoon, the TSS shall be equal to or less than a monthly average of eighty milligrams per liter (80 mg/L) and a weekly average of one hundred twenty milligrams per liter (120 mg/L) and the pH shall be maintained above six *[and one-half (6.5)]* (6.0) and the BOD₅ shall be equal to or less than a monthly average of forty-five milligrams per liter (45 mg/L) and a weekly average of sixty-five milligrams per liter (65 mg/L);

B. If the facility is a trickling filter plant, the BOD₅ and TSS shall be equal to or less than a monthly average of forty-five milligrams per liter (45 mg/L) and a weekly average of sixty-five milligrams per liter (65 mg/L);

C. Where the use of effluent limitations set forth in section (8) of this rule is known or expected to produce an effluent that will endanger water quality, the department will set specific effluent limitations for individual dischargers to protect the water quality of the receiving streams. When a waste load allocation study is conducted for a stream or stream segment, all permits for discharges in the

study area shall be modified to reflect the limits established in the waste load allocation study; and

D. The department may require more stringent limitations than authorized in *[subsections (3)(A) and (B)]* paragraphs (8)(A)1. and 2. and subparagraphs (8)(A)3.A., B., and C. of this rule under the following conditions:

(I) If the facility is an existing facility, the department may set the BOD₅ and TSS limits based upon an analysis of the past performance, rounded up to the next five milligrams per liter (5 mg/L) range; and

(II) If the facility is a new facility the department may set the BOD₅ and TSS limits based upon the design capabilities of the plant considering geographical and climatic conditions:

(a) A design capability study has been conducted for new lagoon systems. The study reflects that the effluent limitations should be BOD₅ equal to or less than a monthly average of forty-five milligrams per liter (45 mg/L) and a weekly average of sixty-five milligrams per liter (65 mg/L) and TSS equal to or less than a monthly average of seventy milligrams per liter (70 mg/L) and a weekly average of one hundred ten milligrams per liter (110 mg/L); or

(b) A design capability study has been conducted for new trickling filter systems and the study reflects that the effluent limitations should be BOD₅ and TSS equal to or less than a monthly average of forty milligrams per liter (40 mg/L) and a weekly average of sixty milligrams per liter (60 mg/L);

4. *E. coli*. The following water quality *E. coli* discharge limits apply to all waters, except those in paragraphs (1)(A)1.-6. of this rule:

A. Discharges to stream segments designated as whole body contact recreational or secondary contact recreational in Table H of 10 CSR 20-7.031 shall not exceed the water quality *E. coli* counts established in paragraph (4)(C)2. of 10 CSR 20-7.031;

B. Discharges to privately-owned lakes classified as L3, as defined in subsection (1)(F) of 10 CSR 20-7.031, that are designated as whole body contact recreational or secondary contact recreational in Table G of 10 CSR 20-7.031 shall not exceed the water quality *E. coli* counts established in paragraph (4)(C)2. of 10 CSR 20-7.031. Discharges include releases into streams one-half (1/2) stream mile (.80 km) before the stream enters the lake as measured to its normal full pool;

C. Discharges located within two (2) miles upstream of stream segments or lakes designated for whole body contact recreational or secondary contact recreational in Tables H and G of 10 CSR 20-7.031 shall not exceed the water quality *E. coli* counts established in paragraph (4)(C)2. of 10 CSR 20-7.031 for the receiving stream segment or lake designated for those uses. As an alternative, the department may allow permit applicants to conduct a time of travel study for use in developing water quality discharge limits calculated using the following first order decay equation:

$$C_0 = C_{(t)}e^{kt}$$

Where:

C_0 = concentration of *E. coli* at the outfall, which becomes the effluent limit;

$C_{(t)}$ = the water quality *E. coli* count established in paragraph (4)(C)2. of 10 CSR 20-7.031 for the receiving stream segment or lake that is designated as whole body contact recreational or secondary contact recreational in Tables H and G of 10 CSR 20-7.031;

e = the natural logarithmic constant;

k = decay constant for *E. coli* (use 0.75 inverse days as a default or value may be determined by sampling analysis); and

t = time required for effluent to flow from the outfall to the confluence with the closest classified receiving stream segment or lake during dry weather conditions in units of days; and

D. Facilities without disinfected effluent shall comply with the implementation schedule found in subsection (9)(H) of this rule. During periods of wet weather, a temporary suspension of accountability for bacteria standards may be established through the process described in subsection (9)(I) of this rule;]

[5.]4. Sludges removed in the treatment process shall not be discharged. Sludges shall be routinely removed from the wastewater treatment facility and disposed of or used in accordance with a sludge management practice approved by the department; and

[6.]5. When the wastewater treatment process causes nitrification which affects the BOD₅ reading, the permittee can petition the department to substitute carbonaceous BOD₅ in lieu of regular BOD₅ testing. If the department concurs that nitrification is occurring, the department will set a carbonaceous BOD₅ at five milligrams per liter (5 mg/L) less than the regular BOD₅ in the operating permit.

(B) Monitoring Requirements.

1. The department will develop a wastewater and sludge sampling program based on design flow that will require, at a minimum, one (1) wastewater sample per year for each fifty thousand (50,000) gpd of effluent, or fraction thereof, except that—

A. Point sources that discharge less than twenty-five thousand (25,000) gpd may only be required to submit an annual report;

B. *[Point sources that discharge more than one (1) mgd will be required at a minimum to collect twenty (20) wastewater samples per year unless the applicant can show that the wastewater has a consistent quality, such as once through cooling water or mine dewatering, then the department may set less frequent sampling requirements]* The department may establish less frequent sampling requirements for point sources that produce an effluent that does not exhibit high variability and consistently complies with the applicable effluent limit; and

C. Sludge sampling will be established in the permit; and].

[D. A minimum of one (1) sample shall be collected for *E. coli* analysis each week during the recreational season from April 1 through October 31. Compliance with the *E. coli* water quality standard established in paragraph (4)(C)2. of 10 CSR 20- 7.031 shall be determined each calendar month by calculating the geometric mean of all of the samples collected each calendar month].

2. Sampling frequency shall be *[spread evenly throughout the discharge year. This means that a point source with a continuous discharge shall collect samples on a regular evenly spaced schedule, while point sources with seasonal discharges shall collect samples during the season of discharge]* representative of the discharge during the period the sampling covers (daily, weekly, monthly, seasonally, etc.).

3. Sample types shall be as follows:

A. Samples collected from lagoons may be grab samples;

B. Samples collected from mechanical plants shall be twenty-four (24)-hour composite samples, unless otherwise specified in the operating permit; and

C. Sludge samples shall be a grab sample unless otherwise specified in the operating permit.

4. The monitoring frequency and sample types stated in *[paragraph (8)(C)3.] subsection (8)(B)* of this rule are minimum requirements. The permit writer shall establish monitoring frequencies and sampling types to fulfill the site-specific informational needs of the department.

(9) General Conditions.

(A) Establishing Effluent Limitations. Operating Permits as required under 10 CSR 20-6.010(5) shall include, if applicable, the most protective limits set forth as follows:

1. Technology-based effluent limits and standards based on specific requirements under sections (2) through (8) of this rule;

2. Water quality-based effluent limits based on a waste load allocation in accordance with federal regulations (40 CFR 122.44(d)(1)), which would address pollutants that have a reasonable potential to cause or contribute to an excursion above Water Quality Standards established in 10 CSR 20-7.031. The director shall develop and maintain guidance and methods for determining water quality-based effluent limits.

A. Local effluent and receiving water data may be used to develop site specific effluent limits provided the department determines that this data is representative. Examples include in-stream hardness for the development of site specific metals limits, total dissolved metals translators, and water effects ratios.

B. Water quality-based effluent limitations incorporating mixing zones and zones of initial dilution as provided for in 10 CSR 20-7.031(4)(A)4.B. may be based on stream flows other than critical low-flow conditions, if the following conditions are met:

(I) The limits are protective of critical low-flow conditions, as well as higher flow conditions;

(II) In the case of existing discharges, flow-variable limits shall not allow the discharge to increase its pollutant loading from levels it has previously been able to achieve, unless supported by a waste load allocation as part of an approved Total Maximum Daily Load (TMDL); and

(III) The permit shall require in-stream flow measurements and methods to determine compliance;

3. Effluent limit guidelines or standards that have been federally promulgated under Sections 301, 304, 306, 307, 318, and 405 of the Clean Water Act;

4. Effluent limits prescribed for specific pollutants under a TMDL, as required under Section 303(d)(1)(C) of the Clean Water Act, necessary to achieve water quality standards, including permit limits in lieu of a TMDL. TMDL waste load allocations shall be placed in permits at renewal, and in subsequent renewals as needed, based on appropriate schedules, technological feasibility and practicability, or in accordance with the TMDL implementation plan if one has been developed. The department may reopen existing permits to implement TMDL requirements;

5. Effluent limits that are developed through the antidegradation review process, provided there is reasonable potential to exceed these limits, including No Degradation Effluent Limits (NDELs), Minimally Degrading Effluent Limits (MDELs), and Preferred Alternative Effluent Limits (PELs) that are associated with the selection of a preferred alternative;

6. Effluent limits prescribed for stormwater discharges as required under 10 CSR 20-6.200 Storm Water Regulations; and

7. Effluent Limits that are required as a result of legal agreements between dischargers and the department or the Clean Water Commission, or are the result of formal variances from Water Quality Standards that are approved by the Clean Water Commission, or as otherwise required or allowed by law.

(B) Bacteria and Nutrient Limits. Operating Permits as required under 10 CSR 20-6.010(5) shall include, if applicable, the following bacteria and nutrient limits:

1. Bacteria. The following water quality *Escherichia coli* (*E. coli*) discharge limits apply:

A. Discharges to stream segments designated in Table H of 10 CSR 20-7.031 for whole body contact recreation and secondary contact recreation shall not exceed the water quality *E. coli* counts established in subsection (4)(C) of 10 CSR 20-7.031;

B. Discharges to lakes designated as whole body contact recreational or secondary contact recreational in Table G of 10 CSR 20-7.031 shall not exceed the water quality *E. coli* counts established in subsection (4)(C) of 10 CSR 20-7.031;

C. Discharges to privately-owned lakes classified as L3, as defined in subsection (1)(F) of 10 CSR 20-7.031, that are designated as whole body contact recreational or secondary contact recreational in Table G of 10 CSR 20-7.031 shall not exceed the

water quality *E. coli* counts established in subsection (4)(C) of 10 CSR 20-7.031. Discharges include releases into streams one-half (1/2) stream mile (.80 km) before the stream enters the lake as measured to its normal full pool;

D. Discharges located within two (2) miles upstream of stream segments or lakes designated for whole body contact recreational or secondary contact recreational in Tables H and G of 10 CSR 20-7.031 shall not exceed the water quality *E. coli* counts established in subsection (4)(C) of 10 CSR 20-7.031 for the receiving stream segment or lake designated for those uses;

E. Short-term *E. coli* limits. During the recreation season, discharges to waters designated for whole body contact "A" as defined in paragraph (1)(C)8. of 10 CSR 20-7.031 shall be limited to six hundred thirty (630) colony forming units per one hundred (100) milliliters (ml) expressed as a weekly geometric mean for POTWs and as a daily maximum for non-POTWs. During the recreation season, discharges to waters designated for whole body contact "B" as defined in paragraph (1)(C)8. of 10 CSR 20-7.031 shall be limited to one thousand thirty (1,030) colony forming units per one hundred (100) ml expressed as a weekly geometric mean for POTWs and as a daily maximum for non-POTWs. During the recreation season, discharges to waters designated for secondary contact recreational as defined in paragraph (1)(C)9. of 10 CSR 20-7.031 shall be limited to one thousand one hundred thirty-four (1,134) colony forming units per one hundred (100) ml expressed as a weekly geometric mean for POTWs and as a daily maximum for non-POTWs. For the entire calendar year, discharges to waters that are defined by paragraph (1)(A)3. of this rule as losing streams shall be limited to one hundred twenty-six (126) colony forming units per one hundred (100) ml expressed as a daily maximum;

F. As an alternative to the limits prescribed in subparagraphs (9)(B)2.A. through E., the department may allow permit applicants to conduct a study to develop *E. coli* limits that reflect pathogen decay. Prior to conducting this study applicants shall submit a quality assurance project plan for approval prior to the study, and submit all findings as part of their permit application; and

G. Notwithstanding the bacteria limits prescribed in paragraphs (9)(1)A. through F. of this rule, discharges to losing streams shall be considered in compliance so long as less than ten (10) percent of samples exceed one-hundred twenty-six (126) colony forming units per one hundred (100) ml daily maximum; and

2. Nutrients. Reserved for Nutrient Effluent Limits.

(C) Schedules of Compliance.

1. Compliance with new or revised National Pollutant Discharge Elimination System (NPDES) or Missouri operating permit limitations shall be achieved and in accordance with the federal regulation 40 CFR Part 122.47, "Schedules of Compliance," May 15, 2000, as published by the Office of the Federal Register, National Archives and Records Administration, Superintendent of Documents, Pittsburgh, PA 15250-7954, which is hereby incorporated by reference and does not include later amendments or additions.

2. If any permit allows a time for achieving final compliance from the date of permit issuance, the schedule of compliance in the permit shall set forth interim requirements and the dates for their achievement.

3. Within fourteen (14) days following each interim date and the final date of compliance, the permittee shall provide the department with written notice of the permittee's compliance or noncompliance with the interim or final requirement for the dates.

4. The department may modify a schedule of compliance in an issued permit. Applicants may request a modification by providing appropriate justification. In no case shall the compliance schedule be modified to extend beyond an applicable statutory

deadline.

[(A)](D) Monitoring, Analysis, and Reporting.

1. All construction and operating permit holders shall submit reports at intervals established by the permit or at any other reasonable intervals required by the department. The monitoring and analytical schedule shall be as established by the department in the operating permit.

2. The analytical and sampling methods used must conform to the following reference methods unless alternates are approved by the department:

A. *Standard Methods for the Examination of Waters and Wastewaters* (14, 15, 16, 17, 18, 19, 20, and 21st Edition), published by the Water Environment Federation, 601 Wythe Street, Alexandria, VA 22314;

B. *Water Testing Standards, Vol. II.01 and II.02*, published by American Society for Testing and Materials, West Conshohocken, PA 19428;

C. *Methods for Chemical Analysis of Water and Wastes* (EPA-600/4-79-020), published by the Environmental Protection Agency, Water Quality Office, Analytical Quality Control Laboratory, 1014 Broadway, Cincinnati, OH 54202; and

D. *NPDES Compliance Sampling Inspection Manual, [Report no. MCD-51] (EPA-305-X-04-001)*, published by Environmental Protection Agency, [Enforcement Division, Office of Water Enforcement, 401 Main Street SW, Washington, DC 20460] Office of Enforcement and Compliance Assurance 1200 Pennsylvania Avenue, N.W., Washington, DC 20460 (July 2004).

3. Sampling and analysis by the department to determine violations of this regulation will be conducted in accordance with the methods listed in paragraph (9)(A/D)2. of this rule or any other approved by the department. Violations may be also determined by review of the permittee's self-monitoring reports. Analysis conducted by the permittee or his/her laboratory shall be conducted in such a way that the precision and accuracy of the analyzed results can be determined.

4. If, for any reason, the permittee does not comply with or will be unable to comply with any discharge limitations or standards specified in the permit, the permittee shall provide the department with the following information, with the next discharge monitoring report as required under subsection (9)(A/D) of this rule:

A. A description of the discharge and cause of noncompliance;

B. The period of noncompliance, including exact dates and times and/or the anticipated time when the discharge will return to compliance; and

C. The steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

5. In the case of any discharge subject to any applicable toxic pollutant effluent standard under [s/Section 307(a) of the federal Clean Water Act, the information required by paragraph (9)(A/D)4. of this rule regarding a violation of this standard shall be provided within twenty-four (24) hours from the time the owner or operator of the water contaminant source, point source, or wastewater treatment facility becomes aware of the violation or potential violation. **This information may be provided via an electronic web-based system developed by the department, provided it is available.** If this information is provided orally, a written submission covering these points shall be provided within five (5) working days of the time the owner or operator of the water contaminant source, point source, or wastewater treatment facility becomes aware of the violation.

6. Bacteria Monitoring for Disinfection.

A. For systems that have a design capacity of greater than one hundred thousand (100,000) gpd, a minimum of one (1) sample shall be collected for *E. coli* analysis each calendar week during the recreational season from April 1 through October 31. Compliance with the *E. coli* water quality standard established in subsection (4)(C) of 10 CSR 20-7.031 shall be determined each

calendar month by calculating the geometric mean of all of the samples collected each calendar month. Compliance with the short-term *E. coli* limits established in subparagraph (9)(B)2.E. of this rule shall also be determined.

B. For systems that discharge to stream segments that are defined by paragraph (1)(A)3. as losing streams and have a design capacity of greater than one hundred thousand (100,000) gpd, a minimum of one (1) sample shall be collected for *E. coli* analysis each calendar week all year. Compliance with the *E. coli* water quality standard established in subsection (4)(C) of 10 CSR 20-7.031 and with the short term *E. coli* limits established in subparagraph (9)(B)2.E. of this rule shall also be determined.

C. For systems that have a design capacity of one hundred thousand (100,000) gpd or less, the sampling frequency for *E. coli* analysis shall be in accordance with the wastewater and sludge sampling program based on the design flow which is dependent upon the receiving water category as listed in subsection (1)(A) of this rule. Compliance with the *E. coli* water quality standard established in subsection (4)(C) of 10 CSR 20-7.031 shall be determined each calendar month by calculating the geometric mean of all of the samples collected each calendar month. Compliance with the short-term *E. coli* limits established in subparagraph (9)(B)2.E. of this rule shall also be determined.

7. Monitoring for Nutrients. Point sources that have the design capacity of greater than one hundred-thousand (100,000) gpd that typically discharge nitrogen and phosphorus shall collect and analyze a minimum of one (1) effluent sample each calendar quarter for one (1) permit cycle or up to (5) five years if the first permit term is less than five (5) years. The samples shall be analyzed for total nitrogen and total phosphorus using EPA-approved test methods. The quarterly monitoring frequency for total phosphorus does not apply to dischargers that are subject to the specific lake limits and monitoring requirement specified under subsections (3)(E) and (F) of this rule.

[(B)](E) Dilution Water. Dilution of treated wastewater with cooling water or other less contaminated water to lower the effluent concentration to limits required by an effluent regulation of the Clean Water Law shall not be an acceptable means of treatment.

[(C) Compliance.

1. New sources. Water contaminant sources, point sources, and wastewater treatment facilities and their tributary sewer systems on which construction begins after the effective date of the applicable effluent guidelines shall meet all requirements of this regulation and the Missouri Clean Water Law.

2. Sources for which construction and operating permits were issued prior to the effective date of this regulation shall meet all the requirements of the existing permit. Where the existing permit contains more stringent limitations than those contained in this regulation, the permittee may apply to the department for a modification of the permit to contain the new limitations. The department will notify the applicant of its decision to modify or deny the application within sixty (60) days after receiving an application.]

[(D)](F) Compliance with New Source Performance Standards.

1. Except as provided in paragraph (9)(D/F)2. of this rule, any new water contaminant source, point source, or wastewater treatment facility on which construction commenced after October 18, 1972, or any new source, which meets the applicable promulgated new source performance standards before the commencement of discharge, shall not be subject to any more stringent new source performance standards or to any more stringent technology-based standards under subsection 301(b)(2) of the federal Clean Water Act for the shortest of the following periods:

A. Ten (10) years from the date that construction is completed;

B. Ten (10) years from the date the source begins to discharge process or other nonconstruction related wastewater; or

C. The period of depreciation or amortization of the facility for the purposes of section 167 or 169 (or both) of the *Internal Revenue Code* of 1954.

2. The protection from more stringent standards of performance afforded by paragraph (9)(D/F)1. of this rule does not apply to—

A. Additional or more stringent permit conditions which are not technology based, for example, conditions based on water quality standards or effluent standards or prohibitions under /s/Section 307(a) of the federal Clean Water Act; and

B. Additional permit conditions controlling pollutants listed as toxic under /s/Section 307(a) of the federal Clean Water Act or as hazardous substances under /s/Section 311 of the federal Clean Water Act and which are not controlled by new source performance standards. This exclusion includes permit conditions controlling pollutants other than those identified as hazardous where control of those other pollutants has been specifically identified as the method to control the hazardous pollutant.

[(E)](G) Bypass[ing].

[1. Any bypass or shutdown of a wastewater treatment facility and tributary sewer system or any part of a facility and sewer system that results in a violation of permit limits or conditions is prohibited except—

A. Where unavoidable to prevent loss of life, personal injury, or property damages;

B. Where unavoidable excessive storm drainage or runoff would damage any facilities or processes necessary for compliance with the effluent limitations and conditions of this permit; and

C. Where maintenance is necessary to ensure efficient operation and alternative measures have been taken to maintain effluent quality during the period of maintenance;

2. The permittee shall notify the department by telephone within twenty-four (24) hours and follow with a written report within five (5) days of all bypasses or shutdowns that result in a violation of permit limits or conditions. POTWs that bypass during storm water infiltration events need only report on their discharge monitoring reports. This section does not excuse any person from any liability, unless this relief is otherwise provided by the statute.]

1. Bypass means the intentional diversion of waste streams from any portion of a treatment facility. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

2. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (9)(G)3. and 4. of this rule.

3. Notice.

A. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the department, if possible at least ten (10) days before the date of the bypass.

B. Unanticipated bypass. The permittee shall notify the department by telephone within twenty-four (24) hours and follow with a written report within five (5) days from the time the permittee becomes aware of the circumstances of all bypasses or shutdowns that result in a violation of permit limits or conditions and which may endanger human health or the environment. The twenty-four (24) hour and five (5) day reports may be provided via an electronic web-based system developed by the department, provided it is available, or by facsimile machine. POTWs that bypass during storm water inflow and infiltration events need only report on their discharge monitoring reports.

4. Prohibition of bypass. Bypass is prohibited, and the department may take enforcement action against a permittee for bypass, unless:

A. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

B. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

C. The permittee submitted notices as required under paragraph (9)(G)3. of this rule.

5. The department may approve an anticipated bypass, after considering its adverse effects, if the department determines that it will meet the three (3) conditions listed in paragraph (9)(G)4. of this rule.

[(F)](H) Sludge facilities shall meet the applicable control technology for sewage sludge treatment, use, and disposal as published by the EPA in 40 CFR 503 and applicable state standards and limitations published in 10 CSR 20 and 10 CSR 80. Where there are no standards available or applicable, or when more stringent standards are appropriate to protect human health and the environment, the department shall set specific limitations in permits on a case-by-case basis using best professional judgment.

[(G)](I) Industrial, agricultural, and other nondomestic water contaminant sources, point sources, or wastewater treatment facilities which are not included under subsection (2)(B), (3)(B), (4)(B), or (8)(B) of this rule—

1. These facilities shall meet the applicable control technology currently effective as published by the EPA in 40 CFR 405–471. Where there are no standards available or applicable, the department shall set specific parameter limitations using best professional judgment. pH shall be maintained in the range from six *[and one-half]* to nine *[(6.5–9.0)]* (6–9) standard units, except that discharges of uncontaminated cooling water and water treatment plant effluent may exceed nine (9) standard units, but may not exceed ten and one-half (10.5) standard units, if it can be demonstrated that the pH will not exceed nine (9) standard units beyond the regulatory mixing zone; and

2. Agrichemical facilities shall be designed and constructed so that all bulk liquid pesticide nonmobile storage containers and all bulk liquid fertilizer nonmobile storage containers are located within a secondary containment facility. Dry bulk pesticides and dry bulk fertilizers shall be stored in a building so that they are protected from the weather. The floors of the buildings shall be constructed of an approved design and material(s). At an agrichemical facility, the following procedures shall be conducted in an operational area: all transferring, loading, unloading, mixing, and repackaging of bulk agrichemicals. All precipitation collected in the operational containment area or secondary containment area as well as process generated wastewater shall be stored and disposed of in a no-discharge manner or treated to meet the applicable control technology referenced in paragraph (9)(G)1. of this rule.

[(H)](J) Implementation Schedule for Protection of Whole Body Contact and Secondary Contact Recreation.

[1. For all existing wastewater discharges containing bacteria, the department shall, upon the issuance or first renewal or first significant modification of each permit, include within each permit a compliance schedule that provides up to five (5) years for the permittee to meet permit limits. Permitted facilities may present an evaluation sufficient to show that disinfection is not required to protect one (1) or both designated recreational uses. A use attainability analysis (UAA) may be conducted to demonstrate one (1) or both designated recreational uses are not attainable in the classified waters receiving the effluent.]

[2.]1. [Notwithstanding the provisions of paragraph (9)(H)1. of this rule, all] For discharges to water bodies designated for whole body contact and secondary contact recreational use prior to July 1, 2012, in 10 CSR 20-7.031, permits shall insure compliance with effluent limits to protect whole body contact and secondary contact recreation by no later than December 31, 2013, unless the permittee presents an evaluation sufficient to show that disinfection is not required to protect one (1) or both designated recreational uses, or a UAA demonstrates that one (1) or both designated recreational uses are not attainable in the classified waters receiving the effluent.

2. For discharges to water bodies designated for whole body contact and secondary contact recreational use after June 30, 2012, in 10 CSR 20-7.031, permits shall include schedules of compliance to meet bacteria limits in accordance with subsection (9)(C) of this rule.

[(I)](K) Temporary Suspension of Accountability for Bacteria Standards during Wet Weather. The accountability for bacteria standards may be temporarily suspended for specific discharges when conditions contained in paragraphs (9)(J)1. through 3. of this rule are met.

1. No existing recreational uses downstream of the discharge will be impacted during the period of suspension as confirmed through a water quality review for reasonable potential for downstream impacts and a UAA performed in accordance with the *Missouri Recreational Use Attainability Analysis Protocol* approved by the Missouri Clean Water Commission.

2. The period of suspension must be restricted to the defined wet weather event that corresponds to the period when recreational uses are unattainable. The period must be determinable at any time by the discharger and the general public (such as from stream depth or flow readings or other stream conditions on which publicly accessible records are kept).

3. The suspension shall be subject to public review and comment, Missouri Clean Water Commission approval, and EPA approval before becoming effective and shall be contained as a condition in a discharge permit or other written document developed through public participation.

(L) Whole Effluent Toxicity (WET) Test. A WET test is a quantifiable method of determining the degree at which a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with the receiving water body. The following are permit requirements for acute and chronic WET tests.

1. WET tests are required under 10 CSR 20-6.010(8)(A)4. to be performed by individuals who are properly trained in conducting the test according to the methods prescribed in 40 CFR 136.3.

2. Test Types.

A. Acute WET tests shall be a multiple dilution series, static, non-renewal test to determine the degree at which acute forty-eight to ninety-six hour (48–96 hour) exposure to the effluent is acutely toxic to aquatic life expressed in species survival.

B. Chronic WET test shall be a multiple dilution series, static, renewal test to determine the degree at which chronic (sub lethal) exposure to the effluent is toxic to aquatic life or affects an alternative endpoint such as species reproduction and/or growth. Duration of chronic WET tests shall be established according to 40 CFR 136.3 Identification of test procedures, promulgated as of July 1, 2011, is hereby incorporated by reference in this rule, as published by the Office of the Federal Register, U.S. National Archives and Records, 700 Pennsylvania Avenue NW, Washington, DC 20408. This rule does not incorporate any subsequent amendments or additions.

3. **Applicability.** WET test type and frequency shall be determined and expressed in permits by the department. At permit issuance or reissuance, the department will use valid and representative data to establish on a case-by-case basis, whether an existing discharge causes, has the reasonable potential to cause,

or contributes to an excursion from the narrative water quality criteria. Where the department concludes that a discharge has the reasonable potential to contribute to an excursion from the narrative water quality criteria, as established in 10 CSR 20-7.031 the permit will include WET limits. If the department determines the facility has no reasonable potential to violate water quality standards, WET testing may be removed, or if more information is required, WET testing may be retained at a reduced frequency. WET test applicability for NPDES permits shall be fully addressed in the permit factsheet.

4. Specifications.

A. A dilution series shall be established in the permit for WET test. The dilution series shall be a set of proportional effluent dilutions based on an Allowable Effluent Concentration (AEC).

B. All WET tests shall be performed with *Pimephales promelas* (a fathead minnow) and *Ceriodaphnia dubia* (a water flea), except facilities which discharge to receiving streams designated as cold-water sport fisheries. Facilities which discharge to receiving streams designated as cold water sport fisheries may be required to perform WET tests using *Oncorhynchus mykiss* (rainbow trout) instead of the fathead minnow. Other test species for which test methods are provided in 40 CFR 136.3 may be approved by the department on a case-by-case basis provided the species are appropriately sensitive and representative. Alternative species (not included in 40 CFR 136.3) shall be approved in accordance with the procedures in 40 CFR 136.4. Application for alternate test procedures, promulgated as of July 1, 2011, is hereby incorporated by reference in this rule, as published by the Office of the Federal Register, U.S. National Archives and Records, 700 Pennsylvania Avenue NW, Washington, DC 20408. This rule does not incorporate any subsequent amendments or additions.

C. A Toxic Unit (TU) water quality based limit shall be established in the permit for WET test where the department concludes that a discharge has the reasonable potential to cause or contribute to an excursion from the narrative water quality criteria as established in 10 CSR 20-7.031(3)(D). The TU limit shall be determined in accordance with 40 CFR 122.44(d)(1)(v) and utilizing the methods established in Technical Support Document For Water Quality-based Toxics Control (March 1991, EPA, EPA/505/2-90-001) and documented in the factsheet. Exceedance of a TU limit shall be a WET test failure.

D. Upon completion of a WET test the complete lab report and department form as referenced in the permit shall be submitted by the permittee to the department within the timeframe established by the permit.

AUTHORITY: section 644.026, RSMo [2000] Supp. 2012. Original rule filed June 6, 1974, effective June 16, 1974. For intervening history, please consult the Code of State Regulations. Amended: Filed May 15, 2013.

PUBLIC COST: The proposed amendment total cost of compliance in the aggregate for Publicly-Owned Wastewater Treatment Facilities is \$1,688,100 through FY 2018. It is anticipated that the annual costs for whole effluent toxicity tests of FY 2018 of one hundred fifty-seven thousand dollars (\$157,000) will recur for the life of the rule and may vary with inflation. Nutrient monitoring costs will only be required for one (1) permit term, while nitrate monitoring costs will result in annual savings of fourteen thousand three hundred dollars (\$14,300) in FY 2018 and beyond, with reduced monitoring and on-going compliance.

PRIVATE COST: The proposed amendment total cost of compliance in the aggregate for Privately-Owned Wastewater Domestic and Industrial Treatment Facilities is one hundred two thousand six hundred dollars (\$102,600) through FY 2018. It is anticipated that the annual costs for whole effluent toxicity tests of FY 2018 of thirty-eight

thousand dollars (\$38,000) will recur for the life of the rule and may vary with inflation. Nutrient monitoring costs will only be required for one (1) permit term, while nitrate monitoring costs will result in annual savings of forty thousand three hundred dollars (\$40,300) in FY 2018 and beyond, with reduced monitoring and on-going compliance.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Department of Natural Resources, Division of Environmental Quality, Water Protection Program, John Rustige, PO Box 176, Jefferson City, MO 65102. Comments may be sent with name and address through email to john.rustige@dnr.mo.gov. Public comments must be received by September 18, 2013. The public hearing is scheduled at a meeting of the Clean Water Commission to be held at 9 AM, on September 11, 2013, at the Department of Natural Resources, Lewis and Clark State Office Building, LaCharrette/Nightingale Conference Rooms, 1101 Riverside Drive, Jefferson City, Missouri 65010.

FISCAL NOTE

PUBLIC COST

I. RULE NUMBER

<i>Rule Number and Name:</i>	10 CSR 20-7.015 <i>Effluent Regulations</i>
<i>Type of Rulemaking:</i>	Proposed Amendment

II. SUMMARY OF FISCAL IMPACT

Affected Agency or Political Subdivision	Estimated Cost of Compliance in the Aggregate*
Publicly Owned Treatment Works (POTWs) Nutrient Monitoring required for one permit term (municipalities, sewer districts, and other public utilities)	\$891,400
Publicly Owned Treatment Works (POTW) Whole Effluent Toxicity (WET) Testing (large & medium size municipalities, sewer districts, and other public utilities)	\$876,200
Publicly Owned Treatment Works (POTW) Nitrate Monitoring	(\$79,500)
TOTAL	\$1,688,100 *Cost of Compliance in the Aggregate

*Aggregate costs of compliance is calculated by summing the annual costs in the worksheet tables in III from 2013 through 2018 for POTW, nutrient, wet test and nitrates

*3% inflation

III. Worksheet

In summary, the revisions to 10 CSR 20-7.015 *Effluent Regulations* will:

1. Update bacteria limits and monitoring requirements;
2. Revise language regarding "bypasses" to align with federal definition;
3. Require quarterly effluent monitoring of nutrient concentrations at large wastewater treatment facilities;
4. Provide clarification regarding whole effluent toxicity testing requirements;
5. Allow for electronic reporting via web-based systems (once available);
6. Include provisions for developing effluent limits with regard to several situations such as discharges to impaired waters, tiered limits which allow higher discharge concentrations during higher stream flow rates, and the use of local stream data to adjust effluent limits;
7. Reduce monitoring frequency for facilities that consistently comply with effluent limits;
8. Eliminate schedule to comply with phosphorus effluent limits for discharges to Table Rock Lake and Lake Tanycomo because the dates have already passed;

9. Require limits for the discharge of nitrates that may impact specific drinking water wells;
10. Specify that operating permits may include schedules of compliance in accordance with federal regulations;
11. Revert to pH effluent limits that were in a previous version of the regulation;
12. Allow alternate compliance points for discharges to subsurface waters; and
13. Reorganize and clarify several elements of the rule.

Summary of Costs						
Nutrient Monitoring	FY2013*	FY2014*	FY2015*	FY2016*	FY2017*	FY2018*
	\$23,000	\$71,100	\$122,000	\$175,900	\$232,900	\$266,500
FY2013 through FY2018	Nutrient Monitoring, multi-year aggregate total = \$891,400					
402 Publicly-Owned Treatment Works (POTWs) will collect and analyze 4 samples each year to analyze for total nitrogen and phosphorus at a total cost of \$143 per sample = \$229,944. Operating permits are issued with 5-year terms, and the new monitoring requirements will only be incorporated into permits as they are renewed. Nutrient monitoring will only be required for one permit term, and will be discontinued in future operating permits. During the first full year it is assumed that one-fifth of the POTWs will have permits up for renewal. Only one-half of the first year falls within FY2013. Each year the analytical costs are estimated to increase by 3% for inflation.						
Therefore the FY2013 costs are estimated as: \$229,944 * (1/5) * (1/2) = \$23,000 (Results rounded to \$100)						
For FY2014, an additional one-fifth of the POTWs will have monitoring incorporated into their operating permit: [(\$23,000)*(1.03) + ((402)*(4)*(1/5) * (\$143)*(1.03))] = \$71,100						
For FY2015, an additional one-fifth of the POTWs will have monitoring incorporated into their permit: [(\$71,100)*(1.03) + ((402)*(4)*(1/5) * (\$143)*(1.03)^2)] = \$122,000						
For FY2016, an additional one-fifth of the POTWs will have monitoring incorporated into their permit: [(\$122,000)*(1.03) + ((402)*(4)*(1/5) * (\$143) * (1.03)^3)] = \$175,900						
For FY2017, an additional one-fifth of the POTWs will have monitoring incorporated into their permit: [(\$175,900)*(1.03) + ((402)*(4)*(1/5) * (\$143)*(1.03)^4)] = \$232,900						
For FY2018, the remaining POTWs will have monitoring incorporated into their permit: [(\$232,900)*(1.03) + ((402)*(4)*(1/5)* (1/2) * (\$143)*(1.03)^5)] = \$266,500						
Whole Effluent Toxicity (WET) Tests	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018
	\$135,500	\$139,500	\$143,700	\$148,000	\$152,500	\$157,000
FY2013 through FY2018	Whole Effluent Toxicity, multi-year aggregate total = \$876,200					
142 large POTWs (annual test) and 580 medium-sized POTWs (one test every five years) will conduct WET tests at \$500 per test. Five percent additional testing is assumed because of additional tests required for facilities that have industrial customers. [(142) + (20%)*(580)]*(1.05) *(\$500) = \$135,500 per year. Each year the analytical costs are estimated to increase by 3% for inflation.						
Reduced Nitrate Monitoring	FY2013 (\$12,300)	FY2014 (\$12,700)	FY2015 (\$13,000)	FY2016 (\$13,400)	FY2017 (\$13,800)	FY2018 (\$14,300)

FY2013 through FY2018	Reduced Nitrate Monitoring, multi-year aggregate = (\$79,500)					
82 facilities are currently required to monitor for nitrates. It is assumed that monitoring at half of these facilities will no longer be required. Monthly monitoring is assumed at a cost of \$25 per analysis. Each year the analytical costs are estimated to increase by 3% for inflation. $(82) * (1/2) * (12) * (25) = \$12,300$ savings per year.						
Upgrades for disinfection and ammonia treatment: please see Additional Considerations #1 below and, Water Quality Standards, 10 CSR 20-7.031, fiscal notes	FY2013 —	FY2014 —	FY2015 —	FY2016 —	FY2017 —	FY2018 —
Subtotal aggregates**	\$146,200	\$197,900	\$252,700	\$310,500	\$371,600	\$409,200
Multi-Year Aggregate Total = \$1,688,100						

**Rounded to the nearest hundred

Additional Considerations

1. Update bacteria limits and monitoring requirements

In a concurrent rulemaking (10 CSR 20-7.031), many new waters are being designated for whole body contact. Prior to this proposed amendment, facilities that discharge to waters that are currently designated for whole body contact (A) & (B) and secondary contact recreational are required to disinfect and to meet long-term seasonal bacteria limits. In addition, facilities that discharge to losing streams are required to disinfect and meet daily limits.

Subparagraph (9)(B)1.E. establishes short-term bacteria limits; weekly average limits for Publicly-Owned Treatment Works (POTWs) and maximum daily limits for private facilities. Short-term limits are a federal requirement. Effluent disinfection systems are typically designed for complete kill or inactivity and constructed based on the peak flow of each facility, so the Department would not expect there to be costs associated with meeting short-term bacteria limits during typical operations for facilities that are already required to disinfect.

It is important to note that the bacteria limits for losing streams is being amended to state that discharges to losing streams shall be considered in compliance so long as less than ten (10) percent of samples exceed one-hundred twenty-six (126) colony forming units per one hundred (100) ml daily maximum. This should eliminate some costs associated with continuous compliance. Even with this change the Department does expect a few of these facilities to have occasional difficulties meeting the short-term limits that may require some action. Typically these problems will arise during extreme wet weather events or during times in which a particular treatment plant experiences an upset. In some cases these problems may be addressed by improved operations. But some facilities may choose to modify their chlorination systems, add ultraviolet treatment capacity, or perhaps even build or expand basins to provide additional flow equalization. To accurately reflect any one facility's costs, an industrial engineering evaluation with

detailed estimates of several work packages, combined with the work of price analysts and cost accountants, including prescriptions to address the treatment and collection system of each facility are needed.

A major element of the concurrent rulemaking for 10 CSR 20-7.031, Water Quality Standards, is the designation of more waters as fishable and swimmable. The range of costs associated with the designation of these waters is developed in the concurrent rulemaking. The associated costs to designate these waters greatly surpasses the relatively minor costs associated with implementing short-term limits. For additional information regarding assumptions and calculations please refer to the concurrent rulemaking published June 17, 2013. In many cases associated costs have already been incurred with respect to capital costs, operations and maintenance and the upgrading of facilities to meet both ammonia and bacteria limits at appropriate locations, adding disinfection and/or, replacement or upgrade of treatment plants to meet ammonia limits. Please refer to the public fiscal note associated with the concurrent revision to 10 CSR 20-7.031.

2. Revise language regarding “bypasses” to align with federal definition

The existing rule language regarding bypasses is imprecise and includes incidents in which wastewater does not receive full treatment at the wastewater treatment plant, either because sanitary sewers overflow or because water is routed around treatment units in the wastewater treatment plant. The industry commonly refers to water that escapes sanitary sewers as Sanitary Sewer Overflows (SSOs), and in practice, these should not be referred to as “bypasses.”

The current amendment to 10 CSR 20-7.015 will serve to change the definition of bypass to align it with the federal definition. This will standardize and correct commonly used terminology, and it is intended to reduce confusion by aligning state requirements with federal. Utilizing the federal language will allow dischargers to concern themselves with meeting the existing federal requirements and eliminate concerns about how state rules may differ.

Because the rule essentially adopts existing federal requirements, there are no additional fiscal impacts to consider. Until recently, some stakeholders shared the opinion that the U.S. Environmental Protection Agency (EPA) had changed their interpretation regarding “bypassing,” and so the choice to align Missouri’s rule with the federal rule would result in implementation costs related to those changed interpretations. In particular, EPA had determined by policy that blending was considered bypassing. Blending is generally a diversion of peak wet-weather flows around biological treatment units and combining effluent from all processes prior to discharge from a permitted outfall. The discharge must still meet effluent limits. However, on March 25, 2013, the U.S. Eighth Circuit Court of Appeals invalidated EPA’s policy regarding blending (*Iowa League of Cities vs. Environmental Protection Agency*). The Court found that these EPA policies were functionally binding, and as such, they were subject to the notice and comment requirements, and since EPA did not engage in notice and comment procedures prior to issuing these policies, the court vacated them.

In summary, the amendment substantially adopts the federal definition of bypass and therefore there are no cost considerations.

3. Require quarterly effluent monitoring of nutrient concentrations at large wastewater treatment facilities

One online survey of the costs for analyzing a wastewater sample for total nitrogen ranged from \$42 to \$85 and total phosphorus ranged from \$21 to \$58. The higher costs estimates (\$85 plus \$58 = \$143 per sample) are used. According to the Missouri Clean Water Information System (MoCWIS), there are approximately 402 POTWs that have a design of 100,000 gallons per day or greater. The rule will require quarterly sampling.

However, this requirement will be implemented through operating permits. Operating permit terms are five years. Nutrient monitoring will only be required for one permit term, once the facility completes the required monitoring.

4. Provide clarification regarding whole effluent toxicity testing requirements

Whole effluent toxicity (WET) testing requirements have been included in operating permits for several years; so many POTWs have already been incurring these costs. For the purposes of this fiscal note, however, the figures presented will estimate the total cost of WET testing. The current permitting approach is to require annual WET tests for all facilities that have a design flow of one million gallons per day or more (large POTWs). For facilities that have design flows less than 22,500 gallons per day, WET testing is generally not required. For medium-sized facilities (design greater than 22,500 gallons per day and less than one million gallons per day) the general permitting policy is to require one WET test per permit cycle, which is typically once every five years.

In addition to these general flow guidelines, WET tests may be required for small POTWs in which the department has toxicity concerns. An example might be a very small community that has an industrial source that discharges to the plant. Toxicity concerns from industrial sources may also indicate the need for more frequent WET testing.

According to the Missouri Clean Water Information System (MoCWIS), there are approximately 142 POTWs that have a design flow of one million gallons per day and there are 580 medium sized POTWs. For the purposes of this fiscal note it is assumed that the "one test per permit cycle" WET tests are distributed so that twenty percent of the facilities are incurring the testing expense each year because of the five-year permit cycle. In addition, the estimate for the total number of tests has been increased by five percent to account for the additional tests that may be required to address concerns that industrial sources may be contributing to toxicity.

A survey of several WET test providers in Missouri indicates that the cost of a WET test ranges from \$300 to \$600. For the purpose of this fiscal note the cost was assumed to be \$500.

$[(142 \text{ large POTWs}) + (20\%)(580 \text{ medium POTWs})](1.05) * (\$500) = \$135,500 \text{ in FY 2013}$

It is expected that the testing may indicate toxicity problems at a few facilities. It is not possible to know how many facilities will discover toxicity, nor is it possible to estimate the costs associated with a toxicity identification evaluation and subsequent toxicity reduction evaluation. Although expected to be relatively rare, there is the possibility that the failure of a series of WET tests may lead to the need for a facility to develop a toxicity reduction strategy. This fiscal note does not attempt to estimate these costs.

Lastly, the number of WET tests is expected to begin to diminish in the future. The overwhelming majority of facilities are expected to show that their effluent is not causing toxicity. With enough data it can be

shown that there is no reasonable potential to expect effluent toxicity, and in those cases operating permits can include less frequent WET testing requirements.

5. Allow for electronic reporting via web-based systems (once available)

The existing regulation requires 24-hour reporting by phone followed by a five-day written report for all bypasses. POTWs are also expected to report Sanitary Sewer Overflows in a similar manner, and the standard conditions document that accompanies all operating permits is being revised to reflect this. The Department has developed an electronic reporting system, which is in the process of being improved and refined. The regulation is being amended to allow the reporting to be done electronically. This is expected to be more convenient and direct, and may save expense for some entities that report.

6. Include provisions for developing effluent limits with regard to several situations such as discharges to impaired waters, tiered limits which allow higher discharge concentrations during higher stream flow rates, and the use of local stream data to adjust effluent limits

These provisions are expected to marginally reduce costs to POTWs. The current rule requires operating permits to be modified when a TMDL is finalized; the amendment allows these changes to be done during permit renewal so long as an urgent remedy is not necessary. Flow tiered limits will allow the Department to issue operating permits that have higher effluent limits during times when there is higher flows in the stream available for mixing. The use of local stream data, such as in-stream hardness for the development of less stringent site specific metals effluent limits likely cost less to meet while still protecting the stream's uses. Again, all of these provisions tend to allow for less stringent limits, and therefore are expected to result in a minor reduction in costs to POTWs.

7. Reduce monitoring frequency for facilities that consistently comply with effluent limits

Subparagraphs (2)(C)1.B., (3)(B)1.B., (4)(C)1.B., and (8)(B)1.B. allow operating permits to be written with reduced monitoring frequency of certain pollutants for facilities that have demonstrated their ability to routinely meet permit limits. It is impossible to predict how many facilities will have monitoring results that will lead to a conclusion that less monitoring is necessary, but this should certainly result in a cost savings for dozens of facilities.

8. Eliminate schedule to comply with phosphorus effluent limits for discharges to Table Rock Lake and Lake Tanycomo because the dates have already passed

This amendment to Subsection (3)(F) will eliminate schedules that have already passed. The schedules involved complying with phosphorus limits in the effected watersheds. There are no costs or cost savings associated with this change.

9. Require limits for the discharge of nitrates that may impact specific drinking water wells

For some time some operating permit writers have been including nitrate limits at the end of pipe in all operating permits that discharge to losing streams and in cases of subsurface wastewater disposal. The purpose of these limits is to protect aquifers for use as a source of drinking water. The approach of requiring nitrate limits in all settings is not prudent because in most cases it is very unlikely that drinking water wells will be affected at a level worthy of concern. The prudent approach is for operating permit writers to include a nitrate limits only in settings in which a concern exists regarding a particular well. The

decision will be based on the size of the discharge, its proximity to the drinking water wells, and a concern that the geological conditions may allow the discharge to affect the quality of the well water.

According to the Missouri Clean Water Information System (MoCWIS), there are approximately 82 POTWs that are currently required to monitor for nitrates. Without evaluating each situation, for the purposes of this fiscal note, it is assumed that half of these facilities will not have to continue monitoring for nitrates because of this rule change. An online survey of the costs for analyzing a wastewater sample for nitrates ranged from \$24 to \$30. For the purposes of this fiscal note the analysis cost is assumed to be \$25 and the monitoring frequency is monthly.

$(82)(1/2)(\$25)(12) = \$12,300$ in savings in FY2013

10. Specify that operating permits may include schedules of compliance in accordance with federal regulations

Existing language in Section (10) of 10 CSR 20-7.031 *Water Quality Standards* references the federal regulation regarding schedule of compliance (40 CFR 122.47). This amendment will relocate the schedule of compliance language from the Water Quality Standards rule into this rule. There are no fiscal ramifications from moving the location of this provision.

11. Revert to pH effluent limits that were in a previous version of the regulation

During the previous revision to the Effluent Regulation the pH range was revised from (6 to 9) to (6.5 to 9.0). This change was made as a result of a response to a comment from the U.S. Environmental Protection Agency. The purpose of this change was to align the Effluent Regulation with the Water Quality Standards rule. However, the Regulatory Impact Report (RIR) for this previous rulemaking did not address the costs associated with this change because the change was made subsequent to the RIR process during the response to comments phase of the rulemaking. In addition, the fiscal note did not address the costs.

Department is proposing to revise the pH portions of the rule to read as it did prior to the last revision, meaning the rule will require effluent to have a pH range of 6 to 9. The Department does not expect there to be any fiscal impact to returning to the previous pH range.

12. Allow alternate compliance points for discharges to subsurface waters

The existing rule requires facilities that have subsurface discharges to meet their effluent limits at a point ten feet below the surface. The purpose of specifying the "ten foot" compliance point was to allow compliance to be determined at some point below the surface but prior to typical entry into the aquifer. The proposed amendment will allow alternative compliance depths provided it is appropriate for the setting. Although not common, it is expected that a few facilities may see a marginal savings because they may not have to treat wastewater to quite as low a concentration prior to release. Because the savings are expected to be quite marginal and relatively rare, for the purposes of this fiscal note this change is assumed to have no fiscal impact.

13. Reorganize and clarify several elements of the rule

Rule reorganization and clarification is not expected to result in any fiscal impacts.

IV. ASSUMPTIONS

The duration of the proposed rule is indefinite. There is no sunset clause. Costs imposed by the proposed rule for each monitoring and wet tests are shown on an annual basis. The total estimated cost of compliance in the aggregate for all publicly owned treatment works, POTWs, is \$1,688,100 through FY2018.

The proposed amendment will cost public entities in the aggregate \$146,200 in fiscal year 2013, \$197,900 in fiscal year 2014, \$252,700 in fiscal year 2015, \$310,500 in fiscal year 2016, \$371,600 in fiscal year 2017, and \$409,200 in fiscal year 2018. The costs associated with nutrient monitoring for nitrogen and phosphorus are expected to decrease after 2018 as facilities will have completed their monitoring obligation within their specific permit terms. The costs associated with whole effluent toxicity testing, or WET Tests, after 2018, while expected to continue, will be significantly reduced in future years as most facilities will demonstrate that their effluent is not toxic and monitoring can be reduced or eliminated. The savings for nitrate are a result of reduced monitoring frequency and, are expected to continue into future years.

Total cost aggregate savings for nitrate monitoring will result in annual savings \$14,300 in FY2018 due to reduced monitoring and, beyond with on-going compliance.

It has been assumed that these changes will not require a staffing increase for the State.

FISCAL NOTE

PRIVATE COST

I. RULE NUMBER

Rule Number and Name	<i>10 CSR 20-7.015 Effluent Regulations</i>
Type of Rulemaking	<i>Proposed Rule Amendment</i>

II. SUMMARY OF FISCAL IMPACT

Estimate of the number of entities by class which would likely be affected by the adoption of the proposed rule:	Classification by types of the business entities which would likely be affected:	Estimate in the aggregate as to the cost of compliance with the rule by the affected entities:
Approximately 300 facilities	Private domestic and industrial wastewater treatment facilities	\$102,600

Affected Agency or Political Subdivision	Estimated Cost of Compliance in the Aggregate*
Private wastewater treatment facilities, Nutrient Monitoring required for one permit term	\$115,600
Private wastewater treatment facilities, Whole Effluent Toxicity (WET) Testing (large & medium facilities)	\$212,000
Private wastewater treatment facilities, Nitrate Monitoring	(\$225,000)
TOTAL	\$102,600 *Cost of Compliance in the Aggregate

* Aggregate cost of compliance is calculated by summing the annual costs in the worksheet tables from 2013 through 2018 for private domestic and industrial wastewater treatment facilities

* 3% inflation

III. WORKSHEET

In summary, the revisions to 10 CSR 20-7.015 *Effluent Regulations* will:

1. Update bacteria limits and monitoring requirements;

- | Summary of Costs | | | | | | |
|------------------------------|--|---------|----------|----------|----------|----------|
| Nutrient Monitoring | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 |
| | \$3,000 | \$9,200 | \$15,800 | \$22,800 | \$30,200 | \$34,600 |
| FY2013 through FY2018 | Nutrient Monitoring, multi-year aggregate total = \$115,600 | | | | | |
- 52 private facilities will collect and analyze 4 samples each year to analyze for total nitrogen and phosphorus at a total cost of \$143 per sample = \$29,744. Operating permits are issued with 5-year terms, and the new monitoring requirements will only be incorporated into permits as they are renewed. Nutrient monitoring will only be required for one permit term, and will be discontinued in future operating permits. During the first full year it is assumed that one-fifth of the facilities will have permits up for renewal. Only one-half of the first year season falls within **FY2013**. Each year the analytical costs are estimated to increase by 3% for inflation.
- Therefore the **FY2013** costs are estimated as:
- $$\$29,744 * (1/5) * (1/2) = \$3,000 \text{ (Results rounded to nearest \$100)}$$
- For **FY2014**, an additional one-fifth of the facilities will have monitoring incorporated into their operating permit:
- $$\$3,000 * (1.03) + (52) * (4) * (1/5) * (\$143) * (1.03)^1 = \$9,200$$
- For **FY2015**, an additional one-fifth of the facilities will have monitoring incorporated into their permit:
- $$\$9,200 * (1.03) + (52) * (4) * (1/5) * (\$143) * (1.03)^2 = \$15,800$$
- For **FY2016**, an additional one-fifth of the facilities will have monitoring incorporated into their permit:
- $$\$15,800 * (1.03) + (52) * (4) * (1/5) * (\$143) * (1.03)^3 = \$22,800$$
- For **FY2017**, an additional one-fifth of the facilities will have monitoring incorporated into their permit:
- $$\$22,800 * (1.03) + (52) * (4) * (1/5) * (\$143) * (1.03)^4 = \$30,200$$
- For **FY2018**, the remaining facilities will have monitoring incorporated into their permit:
- $$\$30,200 * (1.03) + (52) * (4) * (1/5) * (1/2) * (\$143) * (1.03)^5 = \$34,600$$

Whole Effluent Toxicity (WET) Tests	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018
	\$32,800	\$33,700	\$34,800	\$35,800	\$36,900	\$38,000
FY2013 through FY2018	Whole Effluent Toxicity, multi-year aggregate total = \$212,000					
5 large private facilities (annual test) and 287 medium private facilities (one test every five years) will conduct WET tests at \$500 per test. Five percent additional testing is assumed because of potential industrial concerns at facilities that have industrial or commercial customers. [(5) + (20%)*(287)]*(1.05) *(\$500) = \$32,800 per year. Each year the analytical costs are estimated to increase by 3% for inflation.						
Reduced Nitrate Monitoring	FY2013 (\$34,800)	FY2014 (\$35,800)	FY2015 (\$36,900)	FY2016 (\$38,000)	FY2017 (\$39,200)	FY2018 (\$40,300)
FY2013 through FY2018	Reduced Nitrate Monitoring, multi-year aggregate total = (\$225,000)					
232 private facilities are currently required to monitor for nitrates. It is assumed that monitoring at half of these facilities will no longer be required. Monthly monitoring is assumed at a cost of \$25 per analysis. Each year the analytical costs are estimated to increase by 3% for inflation. (232) * (1/2) * (12) * (25) = \$34,800 savings per year.						
Upgrades for disinfection and ammonia treatment: please see Additional Considerations # 1 and Water Quality Standards, 10 CSR 20-7.031, fiscal notes	FY2013 —	FY2014 —	FY2015 —	FY2016 —	FY2017 —	FY2018 —
Subtotal aggregates**	\$1,000	\$7,100	\$13,700	\$20,600	\$27,900	\$32,300
Multi-Year Aggregate Total = \$102,600						

**Rounded to the nearest hundred

Additional Considerations

1. Update for bacteria limits and monitoring requirements

In a concurrent rulemaking (10 CSR 20-7.031), many new waters are being designated for whole body contact. Prior to this proposed amendment, facilities that discharge to waters that are currently designated for whole body contact (A) & (B) and secondary contact recreational are required to disinfect and to meet long-term seasonal bacteria limits. In addition, facilities that discharge to losing streams are required to disinfect and meet daily limits.

Subparagraph (9)(B)1.E. establishes short-term bacteria limits; weekly average limits for Publicly-Owned Treatment Works (POTWs) and maximum daily limits for private facilities. Short-term limits are a federal requirement. Effluent disinfection systems are typically designed for complete kill or inactivity and constructed based on the peak flow of each facility, so the Department would not expect there to be costs associated with meeting short-term bacteria limits during typical operations for facilities that are already required to disinfect.

It is important to note that the bacteria limits for losing streams is being amended to state that discharges to losing streams shall be considered in compliance so long as less than ten (10) percent of samples exceed one-hundred twenty-six (126) colony forming units per one hundred (100) ml daily maximum. This should eliminate some costs associated with continuous compliance. Even with this change the Department does expect a few of these facilities to have occasional difficulties meeting the short-term limits that may require some action. Typically these problems will arise during extreme wet weather events or during times in which a particular treatment plant experiences an upset. In some cases these problems may be addressed by improved operations. But some facilities may choose to modify their chlorination systems, add ultraviolet treatment capacity, or perhaps even build or expand basins to provide additional flow equalization. To accurately reflect any one facility's costs, an industrial engineering evaluation with detailed estimates of several work packages, combined with the work of price analysts and cost accountants, including prescriptions to address the treatment and collection system of each facility are needed.

A major element of the concurrent rulemaking for 10 CSR 20-7.031, Water Quality Standards, is the designation of considerably more waters as fishable and swimmable. The range of costs associated with the designation of these waters was developed in this concurrent rulemaking. Associated costs to designate these waters greatly surpasses the relatively minor costs associated with implementing short-term limits. For additional information regarding assumptions and the calculations please refer to the concurrent rulemaking published June 17, 2013. In many cases associated costs have already been incurred with respect to capital costs, operations and maintenance, upgrading facilities to meet both ammonia and bacteria limits at appropriate locations, adding disinfection and/or, replacement or upgrade of treatment plants to meet ammonia limits. Please refer to the fiscal note associated with the concurrent revision to 10 CSR 20-7.031.

2. Revise language regarding "bypasses" to align with federal definition

The existing rule language regarding bypasses is imprecise and includes incidents in which wastewater does not receive full treatment at the wastewater treatment plant, either because sanitary sewers overflow or because water is routed around treatment units in the wastewater treatment plant. The industry commonly refers to water that escapes sanitary sewers as Sanitary Sewer Overflows (SSOs), and in practice these should not be referred to as "bypasses."

The amendment will serve to change the definition of bypass to align it with the federal definition. This will standardize and correct commonly used terminology, and it is intended to reduce confusion by aligning state requirements with federal. Utilizing the federal language will allow dischargers to concern themselves with meeting the existing federal requirements and eliminate concerns about how state rules may differ.

Because the rule essentially adopts existing federal requirements, there are no additional fiscal impacts to consider. Until recently, some stakeholders shared the opinion that the U.S. Environmental Protection Agency (EPA) had changed their interpretation regarding "bypassing," and so the choice to align

Missouri's rule with the federal rule would result in implementation costs related to those changed interpretations. In particular, EPA had determined by policy that blending was considered bypassing. Blending is generally a diversion of peak wet-weather flows around biological treatment units and combining effluent from all processes prior to discharge from a permitted outfall. The discharge must still meet effluent limits. However, on March 25, 2013, the U.S. Eight Circuit Court of Appeals invalidated EPA's policy regarding blending (*Iowa League of Cities vs. Environmental Protection Agency*). The Court found that these EPA policies were functionally binding, and as such, they were subject to the notice and comment requirements, and since EPA did not engage in notice and comment procedures prior to issuing these policies, the court vacated them.

In summary, the amendment substantially adopts the federal definition of bypass and therefore there are no cost considerations.

3. Require quarterly effluent monitoring of nutrient concentrations at large wastewater treatment facilities

An online survey of costs for analyzing a wastewater sample for total nitrogen ranged from \$42 to \$85 and total phosphorus ranged from \$21 to \$58. The higher costs estimates (\$85 plus \$58 = \$143 per sample) are used. According to the *Missouri Clean Water Information System (MoCWIS)*, there are approximately 52 private wastewater treatment facilities that have a design of 100,000 gallons per day or greater. The rule will require quarterly sampling.

However, this requirement will be implemented through operating permits. Operating permit terms are five years. Please see the summary table for information on fiscal impact for future years. Nutrient monitoring are one-time costs required in the permit's term.

4. Provide clarification regarding whole effluent toxicity testing requirements

Whole effluent toxicity (WET) testing requirements have been included in operating permits for several years, so many private wastewater treatment facilities have already been incurring these costs. For the purposes of this fiscal note, however, the figures presented will estimate the total cost of WET testing. The current permitting approach is to require annual WET tests for all facilities that have a design flow of one million gallons per day or more (large facilities). For facilities that have design flows less than 22,500 gallons per day, WET testing is generally not required. For medium-sized facilities (design greater than 22,500 gallons per day and less than one million gallons per day) the general permitting policy is to require one WET test per permit cycle, which is typically once every five years.

In addition to these general flow guidelines, WET tests may be required for small private facilities in which the department has toxicity concerns. An example might be a very small community that has an industrial source that discharges to the plant. Toxicity concerns from industrial sources may also indicate the need for more frequent WET testing.

According to the *Missouri Clean Water Information System (MoCWIS)*, there are approximately 5 private wastewater treatment facilities that have a design flow of one million gallons per day and there are 287 medium sized private facilities. For the purposes of this fiscal note it is assumed that the "one test per permit cycle" WET tests are distributed so that twenty percent of the facilities are incurring the testing expense each year because of the five-year permit cycle. In addition, the estimate for the total number of tests has been increased by five percent to account for the additional tests that may be required to address concerns that industrial sources may be contributing to toxicity.

A survey of several WET test providers in Missouri indicates that the cost of a WET test ranges from \$300 to \$600. For the purpose of this fiscal note the cost was assumed to be \$500.

$[(5 \text{ large POTWs}) + (20\%)(287 \text{ medium POTWs})](1.05) * (\$500) = \$32,800 \text{ per year in FY2013}$

It is expected that the testing may indicate toxicity problems at a few facilities. It is not possible to know how many facilities will discover toxicity, nor is it possible to estimate the costs associated with a toxicity identification evaluation and subsequent toxicity reduction evaluation. Although expected to be relatively rare, there is the possibility that the failure of a series of WET tests may lead to the need for a facility to develop a toxicity reduction strategy. This fiscal note does not attempt to estimate these costs.

Lastly, the number of WET tests is expected to begin to diminish in the future. The overwhelming majority of facilities are expected to show that their effluent is not causing toxicity. With enough data it can be shown that there is no reasonable potential to expect effluent toxicity, and in those cases operating permits can include less frequent WET testing requirements.

5. Allow for electronic reporting via web-based systems (once available)

The existing regulation requires 24-hour reporting by phone followed by a five-day written report for all bypasses. Private wastewater systems are also expected to report Sanitary Sewer Overflows in a similar manner, and the standard conditions document that accompanies all operating permits is being revised to reflect this. The Department has developed an electronic reporting system, which is in the process of being improved and refined. The regulation is being amended to allow the reporting to be done electronically. This is expected to be more convenient and direct, and may save expense for some entities that report.

6. Include provisions for developing effluent limits with regard to several situations such as discharges to impaired waters, tiered limits which allow higher discharge concentrations during higher stream flow rates, and the use of local stream data to adjust effluent limits

These provisions are expected to marginally reduce costs to private wastewater treatment facilities. The current rule requires operating permits to be modified when a TMDL is finalized; the amendment allows these changes to be done during permit renewal so long as an urgent remedy is not necessary. Flow tiered limits will allow the Department to issue operating permits that have higher effluent limits during times when there is higher flows in the stream available for mixing. The use of local stream data, such as in-stream hardness for the development of less stringent site specific metals effluent limits likely cost less to meet while still protecting the stream's uses. Again, all of these provisions tend to allow for less stringent limits, and therefore are expected to result in a minor reduction in costs to private facilities.

7. Reduce monitoring frequency for facilities that consistently comply with effluent limits

Subparagraphs (2)(C)1.B., (3)(B)1.B., (4)(C)1.B., and (8)(B)1.B. allow operating permits to be written with reduced monitoring frequency of certain pollutants for facilities that have demonstrated their ability to routinely meet permit limits. It is impossible to predict how many facilities will have monitoring results that will lead to a conclusion that less monitoring is necessary, but this should certainly result in a cost savings for dozens of facilities.

8. Eliminate schedule to comply with phosphorus effluent limits for discharges to Table Rock Lake and Lake Taneycomo because the dates have already passed

This amendment to Subsection (3)(F) will eliminate schedules that have already passed. The schedules involved complying with phosphorus limits in the effected watersheds. There are no costs or cost savings associated with this change.

9. Require limits for the discharge of nitrates that may impact specific drinking water wells

For some time some operating permit writers have been including nitrate limits at the end of pipe in all operating permits that discharge to losing streams and in cases of subsurface wastewater disposal. The purpose of these limits is to protect aquifers for use as a source of drinking water. The approach of requiring nitrate limits in all settings is not prudent because in most cases it is very unlikely that drinking water wells will be affected at a level worthy of concern. The prudent approach is for operating permit writers to include a nitrate limits only in settings in which a concern exists regarding a particular well. The decision will be based on the size of the discharge, its proximity to the drinking water wells, and a concern that the geological conditions may allow the discharge to affect the quality of the well water.

According to the Missouri Clean Water Information System (MoCWIS), there are approximately 232 private wastewater treatment facilities or industrial facilities that are currently required to monitor for nitrates. Without evaluating each situation, for the purposes of this fiscal note, it is assumed that half of these facilities will not have to continue monitoring for nitrates because of this rule change. An online survey of the costs for analyzing a wastewater sample for nitrates ranged from \$24 to \$30. For the purposes of this fiscal note the analysis cost is assumed to be \$25 and the monitoring frequency is monthly.

$(232)(1/2)(\$25)(12) = (\$34,800)$ savings in FY2013

10. Specify that operating permits may include schedules of compliance in accordance with federal regulations

Existing language in Section (10) of 10 CSR 20-7.031 *Water Quality Standards* references the federal regulation regarding schedule of compliance (40 CFR 122.47). This amendment will relocate the schedule of compliance language from the Water Quality Standards rule into this rule. There are no fiscal ramifications from moving the location of this provision.

11. Revert to pH effluent limits that were in a previous version of the regulation

During the previous revision to the Effluent Regulation the pH range was revised from (6 to 9) to (6.5 to 9.0). This change was made as a result of a response to a comment from the U.S. Environmental Protection Agency. The purpose of this change was to align the Effluent Regulation with the Water Quality Standards rule. However, the Regulatory Impact Report (RIR) for this previous rulemaking did not address the costs associated with this change because the change was made subsequent to the RIR process during the response to comments phase of the rulemaking. In addition, the fiscal note did not address the costs.

Department is proposing to revise the pH portions of the rule to read as it did prior to the last revision, meaning the rule will require effluent to have a pH range of 6 to 9. The Department does not expect there to be any fiscal impact to returning to the previous pH range.

12. Allow alternate compliance points for discharges to subsurface waters

The existing rule requires facilities that have subsurface discharges to meet their effluent limits at a point ten feet below the surface. The purpose of specifying the “ten foot” compliance point was to allow compliance to be determined at some point below the surface but prior to typical entry into the aquifer. The proposed amendment will allow alternative compliance depths provided it is appropriate for the setting. Although not common, it is expected that a few facilities may see a marginal savings because they may not have to treat wastewater to quite as low a concentration prior to release. Because the savings are expected to be quite marginal and relatively rare, for the purposes of this fiscal note this change is assumed to have no fiscal impact.

13. Reorganize and clarify several elements of the rule

Rule reorganization and clarification is not expected to result in any fiscal impacts.

V. ASSUMPTIONS

The duration of the proposed rule is indefinite. There is no sunset clause. Costs imposed by the proposed rule for monitoring and wet tests are shown on an annual basis in the table summaries. The total estimated cost of compliance in the aggregate, for all private and domestic wastewater treatment facilities, is \$102,600 through 2018.

The proposed amendment will cost private wastewater treatment facilities (domestic and industrial) in the aggregate \$1,000 in fiscal year 2013, \$7,100 in fiscal year 2014, \$13,700 in fiscal year 2015, \$20,600 in fiscal year 2016, \$27,900 in fiscal year 2017, and \$32,300 in fiscal year 2018. The costs associated with nutrient monitoring for nitrogen and phosphorus are expected to decrease after 2018 as many facilities will have completed their monitoring obligation within their specific permit terms. The costs associated with whole effluent toxicity testing, or WET Tests, after 2018 are expected to decline significantly in future years as most facilities will demonstrate that their effluent is not toxic and monitoring can be reduced or eliminated. The savings for nitrate are a result of reduced monitoring frequency and, are expected to continue into future years.

Total aggregate cost savings for nitrate monitoring are expected to be \$40,300 in FY2018 due to reduced monitoring and, beyond with reduced monitoring and on-going compliance.

**Title 10—DEPARTMENT OF NATURAL RESOURCES
Division 20—Clean Water Commission
Chapter 7—Water Quality**

PROPOSED AMENDMENT

10 CSR 20-7.031 Water Quality Standards. The department is amending the purpose, sections (1), (3), (4), (5), (11); adding sections (2) and (12); and renumbering as needed.

PURPOSE: The purpose of the amendment is to ensure state water quality standards are functionally equivalent to federal standards. These revisions also improve the clarity, specificity and effectiveness of the rule. Several of the revisions are program development priorities of the Department of Natural Resources and U.S. Environmental Protection Agency. Among these priorities are designation of “fishable/swimmable” uses to currently unclassified waters and updating state water quality standards to allow greater flexibility in implementing the standards.

PURPOSE: This rule identifies [beneficial] uses of waters of the state, criteria to protect those uses, and defines the antidegradation policy. It is developed in response to the Missouri Clean Water Law and the federal Clean Water Act, Section 303(c)(1) and (2), which requires that state water quality standards be reviewed at least once every three (3) years. These revisions are pursuant to the national goal of protection of fish, shellfish, and wildlife and recreation in and on the water as outlined in Section 101(a)(2) of the Act.

(1) Definitions.

(A) Acute toxicity—Conditions producing adverse effects or lethality on aquatic life following short-term exposure. The acute criteria in Tables A and B are maximum concentrations which protect against acutely toxic conditions. Acute toxicity is also indicated by exceedence of whole-effluent toxicity (WET) test conditions of paragraph [(3)](4)(1)2. For substances not listed in Table A or B, three-tenths (0.3) of the median lethal concentration, or the no observed acute effect concentration for representative species, may be used to determine absence of acute toxicity.

(C) [Beneficial or d]Designated uses. [Those uses specified in paragraphs 1.–15. of this subsection for each water body segment whether or not they are attained. Beneficial or designated uses paragraphs (1)(C)1.–11. of classified waters are identified in Tables G and H. Beneficial or designated uses paragraphs (1)(C)12.–15. of classified waters must be determined on a site-by-site basis and are therefore not listed in Tables G and H.] Uses specified for each water body whether or not they are being attained. Uses are designated according to section (2) of this rule and include, but are not limited to—

1. Protection and propagation of fish, shellfish and wildlife. Streams will be designated to one (1) of the following aquatic habitat protection uses based on watershed size, scale within the stream network, and data and information contained in the MoRAP Aquatic Gap project at *A Gap Analysis for Riverine Ecosystems of Missouri, 2005 Final Report* as published by the Missouri Resource Assessment Partnership, University of Missouri, Columbia, MO 65201, which is hereby incorporated by reference and does not include any later amendments or additions. The department shall maintain a copy of the referenced document and shall make it available to the public for inspection and copying at no more than the actual cost of reproduction. Lakes and reservoirs will be designated to one (1) of the following aquatic habitat protection uses based on limnological characteristics (such as temperature) and biological assemblages.

A. Warm Water Habitat (WWH)—Waters in which water quality and habitat conditions allow the maintenance of a wide variety of warm-water biota—

- (I) Warm water habitat (Great River);
- (II) Warm water habitat (Large River);
- (III) Warm water habitat (Small River);
- (IV) Warm water habitat (Creek);
- (V) Warm water habitat (Headwater); and
- (VI) Warm water habitat (Lake or reservoir).

B. Cool Water Habitat (CLH)—Waters in which water quality and habitat conditions allow the maintenance of a wide variety of cool-water biota. These waters can support a sensitive, high-quality sport fishery (i.e., smallmouth bass and rock bass).

C. Cold Water Habitat (CDH)—Waters in which water quality and habitat conditions allow the maintenance of a wide variety of cold-water biota. These waters can support a naturally reproducing or stocked trout fishery and populations of other cold-water species—

(I) Cold water habitat (Naturally reproducing trout); and

- (II) Cold water habitat (Stocked trout).

D. Exceptional Aquatic Habitat (EAH)—Waters that contain a high diversity of aquatic species (fish or benthic macroinvertebrate), or contains unusual or unique assemblages of aquatic life (e.g., rare or endangered species). The EAH use may be designated to waters following a satisfactory demonstration as specified in subsection (2)(G) of this rule.

E. Modified Aquatic Habitat (MAH)—Waters in which water quality and/or habitat conditions prevent the maintenance of a wide variety or diversity of aquatic biota. Waters designated for this use must have a demonstrated lack of support for warm, cool, or cold water habitat through a demonstration as specified in subsection (2)(G) of this rule.

2. Recreation in and on the water. Assignment of these uses does not grant an individual the right to trespass.

A. Whole body contact recreation (WBC)—Activities involving direct human contact with waters of the state to the point of complete body submergence. The water may be ingested accidentally and certain sensitive body organs, such as the eyes, ears, and the nose, will be exposed to the water. Although the water may be ingested accidentally, it is not intended to be used as a potable supply unless acceptable treatment is applied. Waters so designated are intended to be used for swimming, water skiing, or skin diving.

(I) Category A (WBC-A)—This category applies to waters that have been established by the property owner as public swimming areas welcoming access by the public for swimming purposes and waters with documented existing whole body contact recreational use(s) by the public. Examples of this category include, but are not limited to: public swimming beaches and property where whole body contact recreational activity is open to and accessible by the public through law or written permission of the landowner.

(II) Category B (WBC-B)—This category applies to waters designated for whole body contact recreation not contained within category A.

B. Secondary contact recreation (SCR)—Uses include fishing, wading, commercial and recreational boating, any limited contact incidental to shoreline activities, and activities in which users do not swim or float in the water. These recreational activities may result in contact with the water that is either incidental or accidental and the probability of ingesting appreciable quantities of water is minimal.

3. Human health protection (HHP)—Criteria to protect this use are based on the assumption of an average amount of fish consumed on a long-term basis. Protection of this use includes compliance with Food and Drug Administration (FDA) limits for fish tissue, maximum water concentrations corresponding to the 10⁻⁶ cancer risk level, and other human health fish consumption criteria.

[1.]4. Irrigation (IRR)—Application of water to cropland or directly to **cultivated** plants that may be used for human or livestock consumption. Occasional supplemental irrigation, rather than continuous irrigation, is assumed.

[2.]5. Livestock and wildlife [watering] protection (LWP)—Maintenance of conditions in **waters** to support health in livestock and wildlife.

[3. Cold-water fishery—Waters in which naturally-occurring water quality and habitat conditions allow the maintenance of a naturally-reproducing or stocked trout fishery and other naturally-reproducing populations of recreationally-important fish species.

4. Cool-water fishery—Waters in which naturally-occurring water quality and habitat conditions allow the maintenance of a sensitive, high-quality sport fishery (including smallmouth bass and rock bass) and other naturally-reproducing populations of recreationally-important fish species.

5. Protection of aquatic life (General warm-water fishery)—Waters in which naturally-occurring water quality and habitat conditions allow the maintenance of a wide variety of warm-water biota, including naturally-reproducing populations of recreationally-important fish species. This includes all Ozark Class C and P streams, all streams with 7Q10 low flows of more than one-tenth cubic foot per second (0.1 cfs), all P1 streams, and all classified lakes. However, individual Ozark Class C streams may be determined to be limited warm-water fisheries on the basis of limited habitat, losing-stream classification, land-use characteristics, or faunal studies which demonstrate a lack of recreationally-important fish species.

6. Protection of aquatic life (Limited warm-water fishery)—Waters in which natural water quality and/or habitat conditions prevent the maintenance of naturally-reproducing populations of recreationally-important fish species. This includes non-Ozark Class C streams and non-Ozark Class P streams with 7Q10 low flows equal to or less than one-tenth cubic foot per second (0.1 cfs) and Ozark Class C streams with the characteristics outlined in paragraph (1)(C)5.

7. Human health protection (Fish consumption)—Criteria to protect this use are based on the assumption of an average amount of fish consumed on a long-term basis. Protection of this use includes compliance with Food and Drug Administration (FDA) limits for fish tissue, maximum water concentrations corresponding to the 10^{-6} cancer risk level, and other human health fish consumption criteria.

8. Whole body contact recreation—Activities in which there is direct human contact with the raw surface water to the point of complete body submergence. The raw water may be ingested accidentally and certain sensitive body organs, such as the eyes, ears, and the nose, will be exposed to the water. Although the water may be ingested accidentally, it is not intended to be used as a potable supply unless acceptable treatment is applied. Water so designated is intended to be used for swimming, water skiing, or skin diving. All waters in Tables G and H of this rule are presumed to support whole body contact recreation unless a Use Attainability Analysis (UAA) has shown that the use is unattainable. The use designation for whole body contact recreation may be removed or modified through a UAA for only those waters where whole body contact is not an existing use. Assignment of this use does not grant an individual the right to trespass when a land is not open to and accessible by the public through law or written permission of the landowner.

A. Category A—This category applies to those water segments that have been established by the property owner as public swimming areas allowing full and free access by the public for swimming purposes and waters with existing

whole body contact recreational use(s). Examples of this category include, but are not limited to, public swimming beaches and property where whole body contact recreational activity is open to and accessible by the public through law or written permission of the landowner.

B. Category B—This category applies to waters designated for whole body contact recreation not contained within category A.

9. Secondary contact recreation—Uses include fishing, wading, commercial and recreational boating, any limited contact incidental to shoreline activities, and activities in which users do not swim or float in the water. These recreational activities may result in contact with the water that is either incidental or accidental and the probability of ingesting appreciable quantities of water is minimal. Assignment of this use does not grant an individual the right to trespass when a land is not open to and accessible by the public through law or written permission of the landowner.]

[10.]6. Drinking water supply (DWS)—Maintenance of a raw water supply which will yield potable water after treatment by public water treatment facilities.

[11.]7. Industrial [process water and industrial cooling water] water supply (IND)—Water to support various industrial uses; since quality needs will vary by industry, no specific criteria are set in these standards.

[12.]8. Storm- and flood-water storage and attenuation (WSA)—[Waters] Wetlands and other waters which serve as overflow and storage areas during flood or storm events slowly release water to downstream areas, thus lowering flood peaks and associated damage to life and property.

[13.]9. Habitat for resident and migratory wildlife species, including rare and endangered species (WHP)—[Waters] Wetlands and other waters that provide essential breeding, nesting, feeding, and predator escape habitats for wildlife including waterfowl, birds, mammals, fish, amphibians, and reptiles.

[14.]10. Recreational, cultural, educational, scientific, and natural aesthetic values and uses (WRC)—[Waters] Wetlands and other waters that serve as recreational sites for fishing, hunting, and observing wildlife; waters of historic or archaeological significance; waters which provide great diversity for nature observation, educational opportunities, and scientific study.

[15.]11. Hydrologic cycle maintenance (WHC)—[Waters] Wetlands and other waters hydrologically connected to rivers and streams serve to maintain flow conditions during periods of drought. Waters that are connected hydrologically to the groundwater system recharge groundwater supplies and assume an important local or regional role in maintaining groundwater levels.

(E) Chronic toxicity—Conditions producing adverse effects on aquatic life or wildlife following long-term exposure but having no readily observable effect over a short time period. Chronic numeric criteria in Tables A and B are maximum concentrations which protect against chronic toxicity; these values shall be considered four-(4-) day averages, with the exception of total ammonia as nitrogen which shall be considered a thirty- (30-) day average. Chronic toxicity is also indicated by exceedence of WET test conditions of subsection [(4)](5)(Q). For substances not listed in Table A or B, commonly used endpoints such as the no-observed effect concentration or inhibition concentration of representative species may be used to demonstrate absence of toxicity.

(F) Class/ified waters—All waters listed [as L1, L2, and L3] in the Use Designation Dataset and in Table G and [P, P1, and C in] Table H of this rule shall have a hydrologic class. During normal flow periods, some rivers back water into tributaries which [are] do not otherwise have a hydrologic class[ified]. These permanent backwater areas are considered to have the same hydrologic class[ification] as the water body into which the tributary flows.

1. Class L1—Lakes used primarily for public drinking water supply.

2. Class L2—Major reservoirs.

3. Class L3—Other lakes which are waters of the state. These include both public and private lakes. For effluent regulation purposes, publicly-owned L3 lakes are those for which a substantial portion of the surrounding lands are publicly owned or managed.

4. Class P—Streams that maintain permanent flow even in drought periods.

5. Class P1—Standing-water reaches of Class P streams.

6. Class C—Streams that may cease flow in dry periods but maintain permanent pools which support aquatic life.

7. **Class E—Streams that do not maintain permanent surface flow or permanent pools, but have ephemeral surface flow or pools less than ninety-six (96-) hours duration in response to precipitation events.**

[7.].8. Class W—Wetlands that are waters of the state that meet the criteria in the *Corps of Engineers Wetlands Delineation Manual* (January 1987), and subsequent federal revisions and supplements. Class W waters do not include wetlands that are artificially created on dry land and maintained for the treatment of mine drainage, stormwater control, drainage associated with road construction, or industrial, municipal, or agricultural waste. *[Class W determination on any specific site shall be consistent with federal law.]*

(X) **Variance—A temporary modification to 10 CSR 20-7.031 that is deemed necessary based on the provisions of 40 CFR 131.10(g) and is approved by the commission and the U.S. Environmental Protection Agency.**

[(X)](Y) **Water effect ratio—**Appropriate measure of the toxicity of a material obtained in a site water divided by the same measure of the toxicity of the same material obtained simultaneously in a laboratory dilution water.

[(Y)](Z) **Water hardness—**The total concentration of calcium and magnesium ions expressed as calcium carbonate. For purposes of this rule, hardness will be determined by the lower quartile (twenty-fifth percentile) value of a representative number of samples from the water body in question or from a similar water body at the appropriate stream flow conditions.

[(Z)](AA) **Water quality criteria—**Chemical, physical, and biological properties of water that are necessary to protect beneficial water uses.

[(AA)](BB) **Waters of the state—**All rivers, streams, lakes, and other bodies of surface and subsurface water lying within or forming a part of the boundaries of the state which are not entirely confined and located completely upon lands owned, leased, or otherwise controlled by a single person or by two (2) or more persons jointly or as tenants in common and includes waters of the United States lying within the state.

[(BB)](CC) **Wetlands—**Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. This definition is consistent with both the United States Army Corps of Engineers **wetlands definition** at 33 CFR 328.3(b) and the United States Environmental Protection Agency **wetlands definition** at 40 CFR 232.2(r).

[(CC)](DD) **Whole effluent toxicity tests—**A toxicity test conducted under specified laboratory conditions on specific indicator organisms. To estimate chronic and acute toxicity of the effluent in its receiving stream, the effluent may be diluted to simulate the computed percent effluent at the edge of the mixing zone or zone of initial dilution.

[(DD)](EE) **Zone of initial dilution—**A small area of initial mixing below an effluent outfall beyond which acute toxicity criteria must be met.

[(EE)](FF) **Zone of passage—**A continuous water route necessary to allow passage of organisms with no acutely toxic effects produced on their populations.

[(FF)](GG) **Other definitions as set forth in the Missouri Clean**

Water Law and 10 CSR 20-2.010 shall apply to terms used in this rule.

(2) Designation of Uses.

(A) **Rebuttable presumption.** Consistent with the presumptive beneficial use protections described by 40 CFR Part 131 and section 101(a)(2) of the federal Clean Water Act—

1. All perennial rivers and streams;

2. All streams with permanent pools;

3. All rivers and streams included within the 1:100,000 scale National Hydrography Dataset (NHD) described in paragraph (2)(D)1. of this rule; and

4. All lakes and reservoirs that intersect the flow lines of rivers and streams identified in paragraph (2)(A)3. of this rule, support the following designated uses: Aquatic habitat protection; Human health protection; Whole body contact recreation – Category B; and Secondary contact recreation, as defined in this rule. This presumption is rebuttable subject to demonstration based on use attainability analyses as described in subsection (2)(G) of this rule.

(B) **Presumed Uses.** All waters described in subsection (2)(A) shall also be assigned livestock and wildlife protection and irrigation designated uses, as defined in this rule.

(C) **Other Uses.** Use designations other than those mentioned in subsections (2)(A) and (2)(B) of this rule may be applied to waters identified in subsection (2)(A), Table G, and Table H of this rule on a site-specific, case-by-case basis following approval by the commission and U.S. Environmental Protection Agency.

(D) **Administration.** Uses of waters shall be designated as follows:

1. Designated uses specified in subsections (2)(A) and (2)(B) shall be assigned to all rivers and streams described in subsections (2)(A)1.-3. of this rule. The 1:100,000 scale NHD shall be enhanced and supported by sufficient and reliable hydrologic and biological data to categorize waters according to aquatic habitat uses described in paragraph (1)(C)1. of this rule. This data will be based on information contained in the MoRAP Aquatic Gap project, and supplemented as needed with data having established quality and quantity characteristics referenced by Missouri Listing Methodology at 10 CSR 20-7.050. Waters contained in Table H of this rule shall be included in the enhanced 1:100,000 scale NHD with congruent uses designated as described in subsection (1)(C) of this rule.

2. Designated uses specified in subsections (2)(A) and (2)(B) shall be assigned to all lakes and reservoirs described in paragraph (2)(A)4. of this rule. Waters contained in Table G of this rule shall be included in the enhanced 1:100,000 scale NHD with congruent uses designated as described in subsection (1)(C) of this rule.

3. Designated uses specified in subsections (2)(A) and (2)(B) shall be assigned on a site-specific, case-by-case basis to waters not identified in subsection (2)(A) where such waters fall under the jurisdiction of Missouri Clean Water Law and where hydrologic and biological data are sufficient for assigning designated uses as described in paragraph (1)(C)1. of this rule.

4. Designated uses shall not be assigned to the following structures:

A. Man-made systems constructed solely to treat or convey wastewater or stormwater; or

B. Physical structures associated with Best Management Practices such as sediment basins, wet and dry detention basins, bioretention basins, rain gardens, and bioswales.

(E) **Use Designation Dataset.** The department shall maintain a geospatial dataset and associated list of waters that receive use designations as described in this rule and Tables G and H. All revisions to this Use Designation Dataset shall be approved by the commission and U.S. Environmental Protection Agency during the next systematic review or subsequent triennial review. New or

revised designated uses approved by the commission and U.S. Environmental Protection Agency shall be used in performing any permitting, enforcement, or other department action as warranted under Chapter 644, RSMo, or any federal water pollution control act.

(F) Use Attainability. In accordance with 40 CFR 131.10(j) and paragraph (2)(D)3. of this rule, a demonstration of use attainability must be performed when the commission—

1. Designates or has designated uses for a water body that do not include the protection of fish, shellfish, and wildlife, or recreation in and on the water;

2. Wishes to remove a designated use that protects fish, shellfish, and wildlife, or recreation in and on the water; or

3. Wishes to apply sub-categories of uses that protect fish, shellfish, and wildlife, or recreation in and on the water, which require less stringent criteria than section 304(a) of the Clean Water Act.

(G) Demonstration of Use Attainability. Demonstrations of use attainability will be performed according to the following conditions:

1. All demonstrations will be conducted on a representative portion of the water body in question, and will not cause segmentation of a water body unless the demonstration provides sound data that the designated use(s) are not representative of the water body as a whole as currently identified;

2. Use attainability analyses intended for recreation in and on the water shall be performed in accordance with methods and procedures as found in *Missouri Recreational Use Attainability Analyses: Water Body Survey and Assessment Protocol, December 19, 2007* as published by the Water Protection Program, Division of Environmental Quality, Missouri Department of Natural Resources, Jefferson City, MO, 65102, which is hereby incorporated by reference and does not include any later amendments or additions. The department shall maintain a copy of the referenced document and shall make it available to the public for inspection and copying at no more than the actual cost of reproduction;

3. Use attainability analyses intended for aquatic habitat protection shall be performed in accordance with methods and procedures as found in *Missouri Aquatic Habitat Use Attainability Analyses: Water Body Survey and Assessment Protocol* dated November 6, 2013, as published by the Water Protection Program, Division of Environmental Quality, Missouri Department of Natural Resources, Jefferson City, MO 65102, which is hereby incorporated by reference and does not include any later amendments or additions. The department shall maintain a copy of the referenced document and shall make it available to the public for inspection and copying at no more than the actual cost of reproduction; and

4. Demonstrations of use attainability will be performed in accordance with protocols and procedures outlined in this section of this rule and approved by the commission and U.S. Environmental Protection Agency.

//(2)/(3) Antidegradation. The antidegradation policy shall provide three (3) levels of protection.

(A) Tier One. Public health, existing in-stream water uses, and a level of water quality necessary to protect existing uses shall be maintained and protected.

(B) Tier Two. For all waters of the state, if existing water quality is better than applicable water quality criteria established in these rules, that existing quality shall be fully maintained and protected. Water quality may be lowered only if the state finds, after full satisfaction of the intergovernmental coordination and public participation requirements, that the lowered water quality is necessary to allow important economic and social development in the geographical area in which the waters are located. In allowing the lowering of water quality, the state shall assure that there shall be achieved the highest

statutory and regulatory requirements for all new and existing point sources and all cost-effective and reasonable best management practices for nonpoint source control before allowing any lowering of water quality. This provision allows a proposed new or modified point or nonpoint source of pollution to result in limited lowering of water quality provided that—

1. The source does not violate any of the general criteria set forth in section (3) of this rule, or any of the criteria for protection of beneficial uses set forth in section (4) of this rule;

2. The source meets all applicable technological effluent limitations and minimum standards of design for point sources or minimum pollution control practices for nonpoint sources; and

3. The lowering of water quality, in the judgment of the department, is necessary for the accommodation of important economic and social development in the geographical vicinity of the discharge. In making a preliminary determination based on socioeconomic development considerations, the department may consider the potential for regional increases in utility rates, taxation levels, or recoverable costs associated with the production of goods or services that may result from the imposition of a strict no-degradation policy. Consideration may also be given to the possible indirect effects of a policy on per capita income and the level of employment in the geographical vicinity of the proposed pollution source. Any preliminary decision by the department to allow a limited lowering of water quality will be stated as such in a public notice issued pursuant to 10 CSR 20-6.010. Pursuant to that provision, a public hearing will be held in the geographical vicinity of the proposed pollution source, if the department determines there is significant public interest in and need for a hearing.

(C) Tier Three. There shall be no lowered water quality in outstanding national resource waters or outstanding state resource waters, as designated in Tables D and E.

(D) The three (3) levels of protection provided by the antidegradation policy in subsections (A) through (C) of this section shall be implemented according to procedures hereby incorporated by reference and known as the “Missouri Antidegradation Rule and Implementation Procedure, [April 20, 2007, Revised May 7, 2008] May 2, 2012.” No later amendments or additions are included. This document shall be made available to anyone upon written request to the Department of Natural Resources, Water Protection Program, Water Pollution Control Branch, P./JOI./ Box 176, Jefferson City, MO 65102-0176.

//(3)/(4) General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

(A) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly, or harmful bottom deposits or prevent full maintenance of beneficial uses;

(B) Waters shall be free from oil, scum, and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;

(C) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor, or prevent full maintenance of beneficial uses;

(D) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal, or aquatic life;

(E) There shall be no significant human health hazard from incidental contact with the water;

(F) There shall be no acute toxicity to livestock or wildlife watering;

(G) Waters shall be free from physical, chemical, or hydrologic changes that would impair the natural biological community;

(H) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment, and solid waste as defined in Missouri’s Solid Waste Law, section 260.200, RSMo,

except as the use of such materials is specifically permitted pursuant to sections 260.200–260.247, RSMo;

(I) Waters in mixing zones and *[unclassified]* waters *[which support aquatic life on an intermittent basis]* lacking designated uses shall be subject to the following requirements:

1. The acute toxicity criteria of Tables A and B and the requirements of subsection *[(4)](5)(B)*; and
2. The following whole effluent toxicity conditions must be satisfied:

A. Single dilution method. The percent effluent at the edge of the zone of initial dilution will be computed and toxicity tests performed at this percent effluent. These tests must show statistically-insignificant mortality on the most sensitive of at least two (2) representative, diverse species; and

B. Multiple dilution method. An LC_{50} will be derived from a series of test dilutions. The computed percent effluent at the edge of the zone of initial dilution must be less than three-tenths (0.3) of the LC_{50} for the most sensitive of at least two (2) representative, diverse species.

[(4)](5) Specific Criteria. The specific criteria shall apply to *[classified]* waters contained in the Use Designation Dataset and Tables G and H of this rule. Protection of drinking water supply is limited to surface waters designated for raw drinking water supply and aquifers. Protection of whole body contact recreation is limited to *[classified]* waters designated for that use.

(A) The maximum chronic toxicity criteria in Tables A and B shall apply to waters designated for the indicated uses given in the Use Designation Dataset and Tables G and H. All Table A and B criteria are chronic toxicity criteria, except those specifically identified as acute criteria. Water contaminants shall not cause or contribute to concentrations in excess of these values. Table A values listed as health advisory levels shall be used in establishing discharge permit limits and management strategies until additional data becomes available to support alternative criteria, or other standards are established. However, exceptions may be granted in the following cases:

1. Permanent flow streams when the stream flow is less than 7Q10;
2. Regulated flow streams if the flow is less than the minimum release flow agreed upon by the regulating agencies;
3. For the natural and unavoidable chemical and physical changes that occur in the hypolimnion of lakes. Streams below impoundments shall meet applicable specific criteria;
4. For mixing zones.

A. The mixing zone shall be exempted from the chronic criteria requirements of this section for those components of waste that are rendered nontoxic by dilution, dissipation, or rapid chemical transformation. Acute numeric criteria of Tables A and B and whole effluent acute toxicity requirements of subsection *[(3)](4)(I)* must be met at all times within the mixing zone, except within the zone of initial dilution. The following criteria do not apply to thermal mixing zones. Criteria for thermal mixing zones are listed in paragraph *[(4)](5)(D)6*.

B. The maximum size of mixing zones and zone of initial dilution will be determined as follows:

(I) Streams with 7Q10 low flows of less than one-tenth cubic foot per second (0.1 cfs);

- (a) Mixing zone—not allowed; and
- (b) Zone of initial dilution—not allowed;

(II) Streams with 7Q10 low flow of one-tenth to twenty cubic feet per second (0.1–20 cfs)—

(a) Mixing zone—one-quarter (1/4) of the stream width, cross-sectional area, or volume of flow; length one-quarter (1/4) mile. If the discharger can document that rapid and complete mixing of the effluent occurs in the receiving stream, the mixing zone may be up to one-half (1/2) of the stream width, cross-sectional area, or volume of flow; and

- (b) Zone of initial dilution—one-tenth (0.1) of the mix-

ing zone width, cross-sectional area, or volume of flow;

(III) Streams with 7Q10 low flow of greater than twenty cubic feet per second (20 cfs)—

(a) Mixing zone—one-quarter (1/4) of stream width, cross-sectional area, or volume of flow; length of one-quarter (1/4) mile; and

(b) Zone of initial dilution—one-tenth (0.1) of the mixing zone width, cross-sectional area, or volume of flow and no more than ten (10) times the effluent design flow volume unless the use of diffusers or specific mixing zone studies can justify more dilution; and

(IV) Lakes.

(a) Mixing zone—not to exceed one-quarter (1/4) of the lake width at the discharge point or one hundred feet (100') from the discharge point, whichever is less.

(b) Zone of initial dilution—not allowed.

C. A mixing zone shall not overlap another mixing zone in a manner that the maintenance of aquatic life in the body of water in the overlapping area would be further adversely affected.

D. Other factors that may prohibit or further limit the size and location of mixing zones are the size of the river, the volume of discharge, the stream bank configuration, the mixing velocities, other hydrologic or physiographic characteristics, and the designated uses of the water, including type of aquatic life supported, potential effects on mouths of tributary streams, and proximity to water supply intakes.

E. Zones of passage must be provided wherever mixing zones are allowed.

F. Mixing zone and zone of initial dilution size limits will normally be based on streams at the 7Q10 low flow. However, this percent of stream size limits also applies at higher stream flows and discharge limitations may be based on higher stream flows if discharge volume or quality may be adjusted to correlate with stream flow; and

5. For wetlands. Water quality needs will vary depending on the individual characteristics of the wetland/s/. Application of numeric criteria will depend on the specific aquatic life, wildlife, and vegetation requirements.

A. Specific criteria for wetlands shall be developed using scientific procedures including, but not limited to, those procedures described in the U.S. Environmental Protection Agency's *Water Quality Standards Handbook*, Second Edition, August 1994 as published by the Office of Science and Technology, Office of Water, U.S. Environmental Protection Agency, Washington, DC 20460, which are hereby incorporated by reference and do not include any later amendments or additions. The department shall maintain a copy of the referenced documents and shall make them available to the public for inspection and copying at no more than the actual cost of reproduction.

B. Specific criteria shall protect all life stages of species associated with wetlands and prevent acute and chronic toxicity in all parts of the wetland.

C. Specific criteria shall include both chronic and acute concentrations to better reflect the different tolerances to the inherent variability between concentrations and toxicological characteristics of a condition.

D. Specific criteria shall be clearly identified as maximum "not to be exceeded" or average values, and if an average, the averaging period and the minimum number of samples. The conditions, if any, when the criteria apply shall be clearly stated (e.g., specific levels of hardness, pH, or water temperature). Specific sampling requirements (e.g., location, frequency), if any, shall also be identified.

E. The data, testing procedures, and application (safety) factors used to develop specific criteria shall reflect the nature of the condition (e.g., persistency, bioaccumulation potential) and the most sensitive species associated with the wetland.

F. Each specific criterion shall be promulgated in rule 10 CSR 20-7.031. The public notice shall include a description of the affected wetland and the reasons for applying the proposed criterion. A public hearing may be held in the geographical vicinity of the affected wetland. Any specific criterion promulgated under these provisions is subject to U.S. [EPA] Environmental Protection Agency approval prior to becoming effective.

(B) Toxic Substances.

1. Water contaminants shall not cause the criteria in Tables A and B to be exceeded. Concentrations of these substances in bottom sediments or waters shall not harm benthic organisms and shall not accumulate through the food chain in harmful concentrations, nor shall state and federal maximum fish tissue levels for fish consumption be exceeded. More stringent criteria may be imposed if there is evidence of additive or synergistic effects.

2. For compliance with this rule, metals shall be analyzed by the following methods:

A. Aquatic life protection and human-health protection—fish consumption.

(I) Mercury—total recoverable metals.

(II) All other metals—dissolved metals;

B. Drinking water supply—total recoverable metals; and

C. All other beneficial uses—total recoverable metals.

3. Other potentially toxic substances for which sufficient toxicity data are not available may not be released to waters of the state until safe levels are demonstrated through adequate bioassay studies.

4. Drinking water criteria, for substances which are rendered nontoxic by transformation processes in the surface water body, shall apply at water supply withdrawal points.

5. Site-specific alternative criteria for human health-fish consumption may be allowed. Designation of these site-specific criteria must follow *[the established variance request process]* procedures set forth in U.S. Environmental Protection Agency's *Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, October 2000 (EPA-822-B-00-004)*, as published by the Office of Science and Technology, Office of Water, U.S. Environmental Protection Agency, Washington, DC 20460, which is hereby incorporated by reference and does not include any later amendments or additions. The department shall maintain a copy of the referenced document and shall make it available to the public for inspection and copying at no more than the actual cost of reproduction.

6. Metals criteria for which toxicity is hardness dependent are in equation format in Table A.

7. Total ammonia nitrogen. For any given sample, the total ammonia nitrogen criteria shall be based on the pH and temperature of the water body measured at the time of each sample at the point of compliance.

A. The acute criteria shall not be exceeded at any time except in those waters for which the department has allowed a zone of initial dilution (ZID). The one- (1-) day Q_{10} low flow condition will be used in determining acute total ammonia nitrogen criteria.

B. The chronic criteria shall not be exceeded except in water segments for which the department has allowed a mixing zone (MZ). The chronic criteria shall be based on a thirty- (30-) day exposure period. Therefore, the thirty- (30-) day Q_{10} low flow condition of the receiving water body will be used in determining chronic total ammonia nitrogen criteria.

C. Without sufficient and reliable data, it is assumed that early life stages are present and must be protected at all times of the year.

(I) Sufficient and reliable data shall include, but are not limited to, seasonal studies on the fish species distributions, spawning periods, nursery periods, duration of sensitive life stages, and water body temperature. Best professional judgment from fisheries biologists and other scientists will be considered as appropriate.

(II) The time frames during the year when early life stages are considered to be absent are those time periods when early life

stages are present in numbers that, if chronic toxicity did occur, would not affect the long-term success of the populations.

(III) A source of information for determining the duration of early life stages is *The American Society for Testing and Materials (ASTM) Standard E-1241*, "Standard Guide for Conducting Early Life-Stage Toxicity Tests with Fishes."

(IV) Protection of early life stages should include the most sensitive species that have used a water body for spawning and rearing since November 28, 1975.

(C) Bacteria. The protection of whole body contact recreation is limited to *[classified]* waters designated for that use. The recreational season is from April 1 to October 31. The *E. coli* count shall not exceed the criterion listed in Table A as a geometric mean during the recreational season in waters designated for whole body contact recreation. The *E. coli* count shall not exceed one hundred twenty-six (126) per one hundred milliliters (100 mL) at any time in losing streams. For waters designated for secondary contact recreation, the *E. coli* count shall not exceed one thousand one hundred thirty-four (1,134) per one hundred milliliters (100 mL) as a geometric mean during the recreational season.

(D) Temperature.

1. For *[general and limited warm-water fisheries]* warm water habitats beyond the mixing zone, water contaminant sources and physical alteration of the water course shall not raise or lower the temperature of a stream more than five degrees Fahrenheit (5 °F) or two and seven-ninths degrees Celsius (2 7/9 °C). Water contaminant sources shall not cause or contribute to stream temperature in excess of ninety degrees Fahrenheit (90 °F) or thirty-two and two-ninths degrees Celsius (32 2/9 °C). However, site-specific ambient temperature data and requirements of sensitive resident aquatic species will be considered, when data are available, to establish alternative maxima or deviations from ambient temperatures.

2. For *cool[-water fisheries]* water habitats beyond the mixing zone, water contaminant sources and physical alteration of the water course shall not raise or lower the temperature of a stream more than five degrees Fahrenheit (5 °F) or two and seven-ninths degrees Celsius (2 7/9 °C). Water contaminant sources shall not cause or contribute to stream temperature in excess of eighty-four degrees Fahrenheit (84 °F) or twenty-eight and eight-ninths degrees Celsius (28 8/9 °C).

3. For *cold[-water fisheries]* water habitats beyond the mixing zone, water contaminant sources and physical alteration of the water course shall not raise or lower the temperature of the water body more than two degrees Fahrenheit (2 °F) or one and one-ninth degrees Celsius (1 1/9 °C). Water contaminant sources shall not cause or contribute to temperatures above sixty-eight degrees Fahrenheit (68 °F) or twenty degrees Celsius (20 °C).

4. Water contaminant sources shall not cause any measurable rise in the temperature of lakes. An increase is allowable for Lake Springfield, Thomas Hill Reservoir, and Montrose Lake; however, discharges from these lakes must comply with temperature limits for streams.

5. For the Mississippi River Zones 1A and 2, the water temperature outside the mixing zone shall not exceed the maximum limits indicated in the following list during more than one percent (1%) of the time in any calendar year. In Zone 1B, limits may not be exceeded more than five percent (5%) of the time in a calendar year. At no time shall the river water temperature outside of the thermal mixing zone exceed the listed limits by more than three degrees Fahrenheit (3 °F) or one and six-ninths degrees Celsius (1 6/9 °C).

	A and B		C	
	(°F)	(°C)	(°F)	(°C)
January	45	7 2/9	50	10
February	45	7 2/9	50	10
March	57	13 8/9	60	15 5/9
April	68	20	70	21 1/9
May	78	25 5/9	80	26 6/9

	A and B		C	
June	86	30	87	30 5/9
July	88	31 1/9	89	31 6/9
August	88	31 1/9	89	31 6/9
September	86	30	87	30 5/9
October	75	23 8/9	78	25 5/9
November	65	18 3/9	70	21 1/9
December	52	11 1/9	57	13 8/9

A = Zone 1A—Des Moines River to Lock and Dam No. 25.

B = Zone 1B—Lock and Dam No. 25 to Lock and Dam No. 26.

C = Zone 2—Lock and Dam No. 26 to the Missouri-Arkansas state line.

6. Thermal mixing zones shall be limited to twenty-five percent (25%) of the cross-sectional area or volume of a river, unless biological surveys performed in response to section 316(a) of the federal Clean Water Act (or equivalent) indicate no significant adverse impact on aquatic life. Thermal plume lengths and widths within rivers, and all plume dimensions within lakes, shall be determined on a case-by-case basis and shall be based on physical and biological surveys when appropriate.

(E) pH. Water contaminants shall not cause pH to be outside of the range of 6.5 to 9.0 standard pH units.

(F) Taste- and Odor-Producing Substances. Taste- and odor-producing substances shall be limited to concentrations in the streams or lakes that will not interfere with beneficial uses of the water. For those streams and lakes designated for drinking water supply use, the taste- and odor-producing substances shall be limited to concentrations that will not interfere with the production of potable water by reasonable water treatment processes.

(G) Turbidity and Color. Water contaminants shall not cause or contribute to turbidity or color that will cause substantial visible contrast with the natural appearance of the stream or lake or interfere with beneficial uses.

(H) Solids. Water contaminants shall not cause or contribute to solids in excess of a level that will interfere with beneficial uses. The stream or lake bottom shall be free of materials which will adversely alter the composition of the benthos, interfere with the spawning of fish or development of their eggs, or adversely change the physical or chemical nature of the bottom.

(I) Radioactive Materials. All streams and lakes shall conform to state and federal limits for radionuclides established for drinking water supply.

(J) Dissolved Oxygen. Water contaminants shall not cause the dissolved oxygen to be lower than the levels described in Table A or Table K—Site-Specific Criteria.

(K) Total Dissolved Gases. Operation of impoundments shall not cause the total dissolved gas concentrations to exceed one hundred ten percent (110%) of the saturation value for gases at the existing atmospheric and hydrostatic pressures.

(L) Sulfate and Chloride Limit for Protection of Aquatic Life. Water contaminants shall not cause sulfate or chloride criteria to exceed the levels described in Table A. **Values for sulfate and chloride appearing in the criteria equations shall be based on upper quartile (seventy-fifth percentile) values for the water body in question or any similar water body located in the same watershed, or a nearby watershed within the same ecoregion. Upper quartile values shall be based on twelve or more surface water samples collected at least one (1) month apart under a representative range of flow conditions.**

(M) Carcinogenic Substances. Carcinogenic substances shall not exceed concentrations in water which correspond to the 10^{-6} cancer risk rate. This risk rate equates to one (1) additional cancer case in a population of one (1) million with lifetime exposure. Derivation of this concentration assumes average water and fish consumption amounts. Assumptions are two (2) liters of water and six and one-half (6.5) grams of fish consumed per day. Federally established final

maximum contaminant levels for drinking water supply shall supersede drinking water supply criteria developed in this manner.

(N) Nutrients and Chlorophyll.

1. Definitions.

A. For the purposes of this rule—

(I) All lakes and reservoirs shall be referred to as “lakes”; and

(II) Only total phosphorus (TP) criteria are derived from lake characteristics. Total nitrogen (TN) and chlorophyll (Chl) criteria are determined as a function of TP criteria.

B. Lake ecoregions—Due to differences in topography, soils, and geology, nutrient criteria for lakes and reservoirs will be determined by the use of four (4) major ecoregions. These regions were delineated by grouping the ecological subsections described in Nigh and Schroeder, 2002, *Atlas of Missouri Ecoregions*, Missouri Department of Conservation as follows:

(I) Plains: TP2—Deep Loess Hills; TP3—Loess Hills; TP4—Grand River Hills; TP5—Chariton River Hills; TP6—Claypan Till Plains; TP7—Wyaconda River Dissected Till Plains; TP8—Mississippi River Hills;

(II) Ozark Border: MB2a—Crowley’s Ridge Loess Woodland/Forest Hills; OZ11—Prairie Ozark Border; OZ12—Outer Ozark Border; OZ13—Inner Ozark Border;

(III) Ozark Highland: OZ1—Springfield Plain; OZ2—Springfield Plateau; OZ3—Elk River Hills; OZ4—White River Hills; OZ5—Central Plateau; OZ6—Osage River Hills; OZ7—Gasconade River Hills; OZ8—Meramec River Hills; OZ9—Current River Hills; OZ10—St. Francois Knobs and Basins; OZ14—Black River Ozark Border; and

(IV) Big River Floodplain: MB1—Black River Alluvial Plain; MB2b—Crowley’s Ridge Footslopes and Alluvial Plains; MB3—St. Francis River Alluvial Plain; MB4, OZ16, TP9—Mississippi River Alluvial Plain; OZ15, TP1—Missouri River Alluvial Plain.

C. Criteria values.

(I) Prediction value—A TP concentration that is derived from the characteristics of a lake including dam height in feet, hydraulic residence time in years, and percentage of the watershed that was historically covered by prairie grasses. Prediction values for total phosphorus are calculated directly from these characteristics.

(II) Reference value—A TP concentration that is representative of lakes within an ecoregion having the following characteristics:

(a) Less than twenty percent (20%) of the watershed is in crop land and urban land combined;

(b) There are no point source wastewater discharges and no concentrated animal feeding operations within the watershed;

(c) In the Plains region, more than fifty percent (50%) of the watershed is in grass land; and

(d) In the Ozark Highlands region, more than fifty percent (50%) of the watershed is in woodland.

(III) Site-specific value—A TP concentration for a lake that has been identified as having trophic characteristics for which the reference of the ecoregion and the prediction values for that water body are not adequate to prevent deterioration of water quality. Site-specific criteria are applicable to lakes having a geometric mean TP concentration equal to or less than the 10th percentile value of the range of geometric mean TP concentrations measured in reference lakes within a lake ecoregion. Site-specific criteria are also applicable to lakes with actual TP geometric mean concentrations that are at or below the reference value where the prediction value is at or below the 10th percentile for TP geometric mean concentrations within a lake ecoregion. The 10th percentile values for each ecoregion are listed in Table L and lakes with site-specific criteria are listed in Tables M and N.

D. Tributary arm—A substantial segment of an L2 lake that is primarily recharged by a source or sources other than the main channel of the lake.

2. This rule applies to all lakes and reservoirs that are waters of the state and that are outside the Big River Floodplain ecoregion and have an area of at least ten (10) acres during normal pool.

3. Nutrient criteria for lakes and reservoirs with site-specific criteria are listed in Tables M and N. Nutrient criteria for other lakes are as follows:

A. Total phosphorus (TP)—

(I) For lakes in which the TP prediction value or the actual TP concentration does not exceed the reference value listed in Table L, the TP criterion shall be the reference value, except as described below;

(II) For lakes in which the TP prediction value does not exceed the reference value, and the actual TP value does not exceed the prediction value, the TP criterion shall be the prediction value;

(III) For lakes in which the TP prediction value and the actual TP concentration exceed the reference value listed in Table L, the TP criterion shall be limited to the prediction value; and

(IV) Site-specific TP criteria for the tributary arms of L2 lakes are listed in Table N;

B. Total nitrogen (TN)—

(I) For lakes in which the TP prediction value does not exceed the reference value listed in Table L, TN concentration shall be limited to twenty (20) times the TP reference value;

(II) For lakes in which the TP prediction value does not exceed the reference value, and the actual TP value does not exceed the prediction value, TN concentration shall be limited to twenty (20) times the TP prediction value;

(III) For lakes in which the TP prediction value exceeds the TP reference value listed in Table L, TN concentration shall be limited to twenty (20) times the TP prediction value; and

(IV) This portion of the rule does not apply to lakes that are held to site-specific criteria for TP, TN, and Chl, as listed in Tables M and N; and

C. Chlorophyll (Chl)—Chl criteria shall be calculated from TP criteria as follows:

(I) Plains: Chl:TP = 0.44;

(II) Ozark Border and Ozark Highlands: Chl:TP = 0.42; and

(III) This portion of the rule does not apply to lakes that are held to site-specific criteria for TP, TN, and Chl, as listed in Tables M and N.

4. All TP, TN, and chlorophyll concentrations must be calculated as the geometric mean of a minimum of four (4) representative samples per year for four (4) years that are not necessarily consecutive. All samples must be collected from the surface, near the outflow end of the lake, and during the period May 1–August 31.

(O) All methods of sample collection, preservation, and analysis used in applying criteria in these standards shall be in accord with those prescribed in the latest edition of *Standard Methods for the Examination of Water and Wastewater* or other procedures approved by the Environmental Protection Agency and the Missouri Department of Natural Resources.

(P) Criteria to protect designated uses are based on current technical literature, especially the Environmental Protection Agency's publication, *Quality Criteria for Water*, 1986. Criteria may be modified or expanded as additional information is developed or as needed to define narrative criteria for particular situations or locations.

(Q) WET Chronic Tests. Chronic WET tests performed at the percent effluent at the edge of the mixing zone shall not be toxic to the more sensitive of at least two (2) representative, diverse species. Pollutant attenuation processes such as volatilization and biodegradation which may occur within the allowable mixing zone will be considered in interpreting results.

(R) Biocriteria. The biological integrity of waters, as measured by lists or numeric *[diversity]* indices of benthic invertebrates, fish, algae, or other appropriate biological indicators, shall not be significantly different from reference waters. **Waters targeted for numeric biological criteria assessment must be contained within the Use**

Designation Dataset and shall be compared to reference waters of similar size *[within an]* (i.e., same MoRAP Aquatic Gap size category specified at paragraph (1)(C)1. of this rule), habitat type, and aquatic ecoregion type (based on MoRAP Aquatic Gap) using procedures including but not limited to those referenced by 10 CSR 20-7.050. Reference water locations are listed in Table I.

(S) Site-Specific Criteria Development for the Protection *[of Aquatic Life]* and Propagation of Fish, Shellfish, and Wildlife. When water quality criteria in this regulation are either underprotective or overprotective of water quality due to *[natural,]* factors influencing bioavailability, or non-anthropogenic conditions for a given water body segment, a petitioner may request site-specific criteria. The petitioner must provide the department with sufficient documentation to show that the current criteria are not adequate and that the proposed site-specific criteria will protect all existing and/or potential uses of the water body.

1. Site-specific criteria may be appropriate where, but is not limited to the examples given in subparagraphs A. or B. of this paragraph.

A. The resident aquatic species of the selected water body have a different degree of sensitivity to a specific pollutant as compared to those species in the data set used to calculate the national or state criteria as described in either of the following parts:

(I) Natural adaptive processes have enabled a viable, balanced aquatic community to exist in waters where natural (non-anthropogenic) background conditions exceed the criterion (e.g., resident species have evolved a genetically-based greater tolerance to high concentrations of a chemical); or

(II) The composition of aquatic species in a water body is different from those used in deriving a criterion (e.g., most of the species considered among the most sensitive, such as salmonids or the cladoceran, *Ceriodaphnia dubia*, which were used in developing a criterion, are absent from a water body).

B. The physical and/or chemical characteristics of the water body alter the biological availability and/or toxicity of the pollutant (e.g., pH, alkalinity, salinity, water temperature, hardness). **Such an example is the Water Effect Ratio (WER) defined at subsection (1)(Y) of this rule.**

2. All petitioners seeking to develop site-specific criteria shall coordinate with the department early in the process. This coordination will ensure the use of adequate, relevant, and quality data; proper analysis and testing; and defensible procedures.

A. The department will provide guidance for establishing site-specific water quality criteria using scientific procedures including, but not limited to, those procedures described in:

(I) *[the]* U.S. Environmental Protection Agency's *Water Quality Standards Handbook*, Second Edition, August 1994[.];

(II) U.S. Environmental Protection Agency's *Interim Guidance on Determination and Use of Water-Effect Ratios for Metals* (EPA-823-B-94-001) and subsequent 1997 modifications;

(III) U.S. Environmental Protection Agency's *Streamlined Water-Effect Ratio Procedure for Discharges of Copper* (EPA-822-R-01-005); and

(IV) U.S. Environmental Protection Agency's *Aquatic Life Ambient Freshwater Quality Criteria – Copper 2007 Revision* (EPA-822-R-07-001).

B. Site-specific criteria development for the Protection and Propagation of Fish, Shellfish and Wildlife shall be performed using the guidance documents listed in parts (5)(S)2.A.(I)–(IV) as published by the Office of Science and Technology, Office of Water, U.S. Environmental Protection Agency, Washington, DC 20460, which are hereby incorporated by reference and do not include any later amendments or additions. The department shall maintain a copy of the referenced documents and shall make them available to the public for inspection and copying at no more than the actual cost of reproduction.

3. Site-specific criteria shall protect all life stages of resident species and prevent acute and chronic toxicity in all parts of a water

body **unless early life stages are determined absent.**

4. Site-specific criteria shall include both chronic and acute concentrations to better reflect the different tolerances of resident species to the inherent variability between concentrations and toxicological characteristics of a chemical.

5. Site-specific criteria shall be clearly identified as maximum "not to be exceeded" or average values, and if an average, the averaging period and the minimum number of samples. The conditions, if any, when the criteria apply shall be clearly stated (e.g., specific levels of hardness, pH, or water temperature). Specific sampling requirements (e.g., location, frequency), if any, shall also be identified.

6. The data, testing procedures, and application (safety) factors used to develop site-specific criteria shall reflect the nature of the chemical (e.g., persistency, bioaccumulation potential, and avoidance or attraction responses in fish) and the most sensitive resident species of a water body.

7. The size of a site may be limited to a single water segment, single water subsegment, or may cover a whole watershed depending on the particular situation for which the specific criterion is developed. A group of water bodies may be considered one (1) site if their respective aquatic communities are similar in composition and have comparable water quality.

8. The department shall determine if a site-specific criterion is adequate and justifiable. Each site-specific criterion shall be promulgated into rule 10 CSR 20-7.031. The public notice shall include a description of the affected water body or water body segment and the reasons for applying the proposed criterion. If the department determines that there is significant public interest, a public hearing may be held in the geographical vicinity of the affected water body or water body segment. Any site-specific criterion promulgated under these provisions is subject to U.S. *[EPA]* **Environmental Protection Agency** approval prior to becoming effective.

[[5]](6) Groundwater.

(A) Water contaminants shall not cause or contribute to exceedance of Table A, groundwater limits in aquifers and caves. Table A values listed as health advisory levels shall be used in establishing management strategies and groundwater cleanup criteria, until additional data becomes available to support alternative criteria or other standards are established. Substances not listed in Table A shall be limited so that drinking water, livestock watering, and irrigation uses are protected.

(B) When criteria for the protection of aquatic life or human health protection-fish consumption in Table A are more stringent than groundwater criteria, appropriate criteria for the protection of aquatic life or human health protection-fish consumption shall apply to waters in caves and to aquifers which contribute an important part of base flow of surface waters designated for aquatic life protection. Other substances not listed in Table A shall be limited in these aquifers and caves so that the aquatic life use is protected.

(C) Groundwater and other criteria shall apply in any part of the aquifer, including the point at which the pollutant enters the aquifer. A specific monitoring depth requirement for releases to aquifers is included in 10 CSR 20-7.015(7)(A).

(D) For aquifers in which contaminant concentrations exceed groundwater criteria or other protection criteria, and existing and potential uses are not impaired, alternative site-specific criteria may be allowed. To allow alternative criteria, the management authority must demonstrate that alternative criteria will not impair existing and potential uses. The demonstration must consider the factors and be subject to the review requirements of 10 CSR 20-7.015(7)(F).

[[6]](7) Metropolitan No-Discharge Streams. No water contaminant except uncontaminated cooling water, permitted stormwater discharges in compliance with permit conditions and excess wet-weather bypass discharges not interfering with beneficial uses, shall be discharged to the watersheds of streams listed in Table F. Existing inter-

im discharges may be allowed until interceptors are available within two thousand feet (2,000') or a distance deemed feasible by the department, or unless construction of outfalls to alternative receiving waters not listed in Table F is deemed feasible by the department. Existing discharges include wastewater volumes up to the design capacity of existing permitted treatment facilities, including phased increases in design capacity approved by the department prior to the effective date of this rule. Additional facilities may be constructed to discharge to these waters only if they are intended to be interim facilities in accordance with a regional wastewater treatment plan approved by the department.

[[7]](8) Outstanding National Resource Waters. Under section **[[2]](3)**, antidegradation section of this rule, new releases to outstanding national resource waters from any source are prohibited and releases from allowed facilities are subject to special effluent limitations as required in 10 CSR 20-7.015(6). Table D contains a list of the outstanding national resource waters in Missouri.

[[8]](9) Outstanding State Resources Waters. The commission wishes to recognize certain high-quality waters that may require exceptionally stringent water-quality management requirements to assure conformance with the antidegradation policy. The degree of management requirements will be decided on an individual basis. To qualify for inclusion, all of the following criteria must be met. The waters listed in Table E must—

(A) Have a high level of aesthetic or scientific value;

(B) Have an undeveloped watershed; and

(C) Be located on or pass through lands which are state or federally owned, or which are leased or held in perpetual easement for conservation purposes by a state, federal, or private conservation agency or organization.

[[9]](10) Lake Taneycomo. The commission wishes to recognize the uniqueness of Lake Taneycomo with respect to its high water clarity, its importance as a trout fishery, and as the central natural resource in the rapidly developing Branson area and threats to the lake's water quality imposed by development. An especially stringent antidegradation policy will be observed in the development of effluent rules, discharge permits, and nonpoint-source management plans and permits to assure that the high visual quality and aquatic resources are maintained. The use of the best treatment technology for point- and nonpoint-source discharges in the lake's watershed between Table Rock Lake and Power Site Dam will be the guiding principle in establishing limitations.

[[10]](11) Compliance with Water Quality Based Limitations. Compliance with new or revised National Pollutant Discharge Elimination System (NPDES) or Missouri operating permit limitations based on criteria in this rule shall be achieved *[with all deliberate speed and]* in accordance with federal regulation at 40 CFR Part 122.47, "Schedules of Compliance," May 15, 2000, as published by the Office of the Federal Register, National Archives and Records Administration, Superintendent of Documents, Pittsburgh, PA 15250-7954, which is hereby incorporated by reference and does not include any later amendments or additions. The department shall maintain a copy of the referenced document and shall make it available to the public for inspection and copying at no more than the actual cost of reproduction.

(12) Variances.

(A) **The department may grant, to an applicant for a National Pollutant Discharge Elimination System (NPDES) or Missouri state operating permit, a temporary variance to a water quality standard.**

1. A variance applies only to the permittee identified in such variance and only to the water quality standard specified in the

variance. A variance does not modify an underlying water quality standard.

2. A variance shall not be granted if water quality standards will be attained by implementing technology-based effluent limits required under 10 CSR 20-7.015 and by implementing cost-effective and reasonable best management practices for non-point source control.

3. A variance shall not be granted for actions that will impact water quality and general criteria conditions protected by 10 CSR 20-7.031(4).

4. A variance shall not be granted that would likely jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of such species' critical habitat.

(B) A variance may be granted if the applicant demonstrates that achieving the water quality standard is not feasible as supported by an analysis based on the factors provided in 40 CFR 131.10(g).

(C) In granting a variance, conditions and time limitations shall be set by the department with the intent that progress be made toward attaining water quality standards.

(D) Each variance shall be granted only after public notification and opportunity for public comment. Once any variance to water quality standards is adopted, the department shall submit the variance to the U.S. Environmental Protection Agency for approval. Each variance shall be reflected in state water quality standards.

//(11)/(13) Losing Streams.

(A) Losing stream determinations will usually be made upon the first application for discharge to a specific water or location within a watershed for a wastewater treatment facility, subdivision development, or animal waste management facility.

(B) Permits or other approvals for those applications will be processed in accordance with the determinations. Additional permits or approvals will be processed in accordance with the latest determination.

(C) For application purposes, any proposed facility within five (5) miles of a known losing stream segment should presume that facility's receiving stream segment is also losing until and unless a specific geologic evaluation is made of that stream and concludes the stream segment is gaining.

(D) Existing facilities operating under a state operating permit and new facilities being constructed under a construction permit in proximity to stream segments subsequently determined to be losing will be allowed to continue in operation at permitted or approved effluent limits for a period of time lasting the design life of the facility (usually twenty (20) years from the original construction completion), provided the facility is in compliance with its effluent limits and remains in compliance with those limits, and if neither of the following conditions is present:

1. If the discharge from such a facility can be eliminated by connection to a locally available facility, the facility shall be connected within three (3) years of the losing stream determination. A local facility shall be considered available if that facility or an interceptor is within two thousand feet (2000') or a distance deemed feasible by the department; and

2. If the discharge from such a facility is shown to cause pollution of groundwater, the facility shall be upgraded to appropriate effluent standards within three (3) years. The department shall include appropriate groundwater monitoring requirements in permits for any such facilities so that pollution, should it occur, would be detected.

(E) Any additional permits or approvals for increased treatment plant design capacity will be processed in accordance with the newest losing stream determination. No additional permits or approvals for any facilities shall be construed as lengthening the time for compliance with losing stream effluent limitations as established in subsection **//(11)/(13)(D)**.

//(12)/(14) Severance. If a section, subsection, paragraph, sentence, clause, phrase, or any part of this rule be declared unconstitutional or invalid for any reason, the remainder of this rule shall not be affected and shall remain in full force and effect.

//(13)/(15) Effective Date. This rule becomes effective immediately upon adoption and compliance with the requirements of subsection 644.036.3., RSMo, of the Missouri Clean Water Law and Chapter 536, RSMo.

Table G-Lake Classifications and Use Designations

NOTE: Fishing, Swimming and livestock watering may not be allowed in some lakes by the local management authorities. The use designations refer only to the protection of water quality for those potential uses.

WATER BODY	CLASS	ACRES	LOCATION	COUNTY(IES)	LWW	AQL	CDF	WBC	SCR	DWS	IND
100 K Statewide Extent	L3	26,517.0	Statewide	Statewide	X	X		B	X		
Adrian Reservoir	L1	45.0	03,41N,31W	Bates	X	X		B			X
Agate Lake	L3	210.7	13,60N,06W	Lewis	X	X		A	X		
Amarugia Lake	L3	39.0	10/11,43N,32W	Cass	X	X		B	X		
Anderson's Whippoorwill Farm Lake	L3	30.0	SW SE 28,28N,11E	Stoddard	X	X		B			
Anthones Mill Lake	L3	91.0	SW SW 19,39N,01W	Washington	X	X		B	X		
Antimi Lake	L3	2.0	NE NE 3,48N,12W	Boone	X	X		B			
Apollo Lake	L3	15.0	21,36N,05E	St. Francois	X	X		B	X		
Appleton City Lake	L1	35.0	12,39N,29W	Bates	X	X		B			X
Archie Lakes	L1	7.3	SESE28,43N,31W	Cass	X	X		B			X
Armstrong Lake	L1	8.0	NE NE 28,52N,16W	Howard	X	X		B			X
Athens State Park Lake	L3	8.0	30,67N,07W	Clark	X	X		A	X		
Atkinson Lake	L3	434.0	NW SE06,37N,28W	St. Clair/Vernon	X	X		A	X		
Atlanta City Lake	L1	17.0	SE SW29,59N,14W	Macon	X	X		B			X
Austin Community Lake	L3	21.0	30,29N,11W	Texas	X	X		A	X		
Baha Trail Lake	L3	16.0	05,39N,01E	Washington	X	X		B	X		
Baring Country Club Lake	L1	81.0	SE26,63N,12W	Knox	X	X		A	X		X
Bass Lake	L3	29.0	13,47N,08W	Callaway	X	X		A	X		
Bean Lake	L3	420.0	12,13,14,23, 24, 54N,37W	Platte	X	X		B	X		
Bear Creek Watershed Lake	L3	26.7	6,63N,09W	Clark	X	X		B	X		
Beaver Lake	L3	14.0	22,25N,04E	Butler	X	X		A			
Bee Tree Lake	L3	10.0	03,42N,06E	St. Louis	X	X		B	X		
Belcher Branch Lake	L3	42.0	08/17,55N,34W	Buchanan	X	X		B	X		
Belle City Lake	L3	6.0	20,41N,07W	Maries	X	X		B			
Ben Branch Lake	L3	37.0	15/14,44N,08W	Osage	X	X		B	X		
Berndt Lake	L1	21.0	NE SW30,66N,23W	Mercer	X	X		B			X
Bevier Lake	L3	5.0	S SE,14,57N,15W	Macon	X	X		B			
Big Buffalo C.A. Lakes	L3	7.9	2,12,41N,20W	Benton	X	X		B			
Big Lake	L3	666.0	18&19,30,61N,39W	Holt	X	X		A	X		
Big Oak Tree S.P. Lake	L3	33.0	14,23N,16E	Mississippi	X	X		B			
Big Soldier Lake	L3	5.0	36,50N,19W	Saline	X	X		B	X		
Bilby Ranch Lake	L3	95.0	13/24,64N,38W	Nodaway	X	X		B	X		
Binder Lake	L3	127.0	SW SE36,45N,13W	Cole	X	X		B	X		
Blind Pony Lake	L3	96.0	NW SE18,49N,22W	Saline	X	X		B	X		
Bloodland Lake (Ft. Wood)	L3	38.1	04,34N,11W	Pulaski	X	X		B	X		
Blue Mountain Lake	L1	14.0	NW SE,09,33N,5E	Madison	X	X		B			X
Blue Springs Lake	L3	642.0	33,49N,31W	Jackson	X	X		A	X		
Blues Pond	L3	10.0	09,37N,08W	Phelps	X	X		B	X		
Bluestem Lake	L3	13.0	22,47N,31W	Jackson	X	X		B	X		
Bo Co Mo Lake	L3	140.0	NW NE10,49N,13W	Boone	X	X		B	X		
Bodarc Lake	L3	13.0	23,47N,31W	Jackson	X	X		B	X		
Boggs Lake	L3	32.0	21-28,44N,05W	Gasconade	X	X		B	X		
Bonne Aqua Lake	L3	6.0	SE NE 26,38N,04E	St. Francois	X	X		B			
Bonne Terre City Lake	L3	10.0	SUR 467,37N,04E	St. Francois	X	X		B			
Bowling Green Lake - Old	L1	7.0	NE NE30,53N,02W	Pike	X	X		B			X
Bowling Green Reservoir	L1	41.0	W NW29,53N,02W	Pike	X	X		B	X		X
Brays Lake	L3	162.0	NE NW35,37N,08W	Phelps	X	X		B	X		
Breckenridge Lake	L1	13.0	NE SW3,57N,26W	Caldwell	X	X		B	X		X
Brookfield Lake	L1	120.0	SE SE33,58N,19W	Linn	X	X		B			X
Browning Lake	L3	120.0	22,25,26,27,3N,22E	Buchanan	X	X		B	X		
Bucklin Lake	L1	17.0	11,57N,18W	Linn	X	X		B			X
Buffalo Bill Lake	L3	45.0	28,58N,31W	DeKalb	X	X		B	X		
Bull Shoals Lake	L2	9,000.0	21/34,20N,15W	Ozark	X	X	X	A	X		
Burlington Lake	L3	21.0	34,57N,30W	Clinton	X	X		B			
Busch W.A. - Kraut Run Lake	L3	164.0	SUR 56 (NW NE23,46N,02E)	St. Charles	X	X		B			

LWW-Livestock and Wildlife Watering
AQL-Protection of Warm Water Aquatic Life and Human Health-Fish Consumption
CDF-Cold Water Fishery

WBC-Whole Body Contact Recreation
SCR-Secondary Contact Recreation
DWS-Drinking Water Supply
IND-Industrial

WATER BODY	CLASS	ACRES	LOCATION	COUNTY(IES)	LWW	AQL	CDF	WBC	SCR	DWS	IND
Busch W.A. No. 35 Lake	L3	51.0	SUR 1669 (NE 30,46N,03E)	St. Charles	X	X		B			
Bushwacker Lake	L3	148.0	26,34N,32W	Vernon	X	X		B	X		
Butler Lake	L1	71.0	NW NE14,40N,32W	Bates	X	X		B			X
Butterfly Lake	L3	65.0	NW NE34,36N,07E	Ste. Genevieve	X	X		B			
C and A Lake	L3	39.0	25,51N,09W	Audrain	X	X		B			
Callaway Lake	L3	135.0	06,45N,02E	St. Charles	X	X		A	X		
Cameron Lake #1	L1	25.0	SW SW10,57N,30W	DeKalb	X	X		B	X		X
Cameron Lake #2	L1	31.0	SW SW10,57N,30W	DeKalb	X	X		B	X		X
Cameron Lake #3	L1	92.0	NW NE09,57N,30W	DeKalb	X	X		B	X		X
Cameron Lake #4 (Grindstone Reservoir)	L1	173.0	NE NW 08,57N,30W	DeKalb	X	X		B			X
Camp Solidarity Lake	L3	10.0	24,43N,02E	Franklin	X	X		B	X		
Carrollton Recreation Lake	L3	61.0	SE NW07,52N,23W	Carroll	X	X		B	X		
Catchlaw Lake	L3	42.0	14,47N,31W	Jackson	X	X		B	X		
Cedar Hill Lakes	L3	22.6	35,42N,03E	Jefferson	X	X		A	X		
Cedar Lake	L3	21.0	35,48N,13W	Boone	X	X		A	X		
Cedar Lake	L3	45.0	SE SE 21,37N,05E	St. Francois	X	X		A	X		
Charity Lake	L3	9.0	NW SE 1,65N,41W	Atchison	X	X		B	X		
City Lake #1 - Perry	L1	16.0	NW NW34,54N,07W	Ralls	X	X		B			X
City Lake #2 - Perry	L1	7.0	NW34,54N,07W	Ralls	X	X		B			X
City Lake Harrisonville	L1	28.0	34,45N,31W	Cass	X	X		B	X		X
Clarence Lake #1	L1	20.0	15,57N,12W	Shelby	X	X		B	X		X
Clarence Lake #2	L1	31.0	15,57N,12W	Shelby	X	X		B	X		X
Clearwater Lake	L2	1,635.0	NW NE06,28N,03E	Wayne/Reynolds	X	X		A	X		
Cleveland Reservoir	L1	10.0	29,45N,33W	Cass	X	X		B			X
Clover Dell Park Lake	L3	10.0	13,45N,22W	Pettis	X	X		B	X		
Cole Lake	L3	40.0	SE10,38N,04E	Jefferson	X	X		A	X		
Conner O. Fewell C.A. Lakes	L3	14.0	32,43N,25W	Henry	X	X		B	X		
Cool Valley Lake	L3	19.0	09,40N,02E	Franklin	X	X		B	X		
Cooley Lake	L3	380.0	02,03,11, 51N,30W	Clay	X	X		B			
Coot Lake	L3	20.0	22,47N,31W	Jackson	X	X		B	X		
Cosmo-Bethel Lake	L3	6.0	NW36,48N,13W	Boone	X	X		B			
Cottontail Lake	L3	22.0	14,47N,31W	Jackson	X	X		B	X		
Council Bluff Lake	L3	423.0	23,35N,01E	Iron	X	X		A	X		
Crane Lake	L3	109.0	W33,32N,04E	Iron	X	X		B	X		
Creighton Lake	L1	18.0	NW SE,14,43N,29W	Cass	X	X		B			X
Crescent Lake	L3	8.0	NE 02,41N,01W	Franklin	X	X		B	X		
Creve Coeur Lake	L3	327.0	20,46N,05E	St. Louis	X	X		B	X		
Crowder St. Park Lake	L3	18.0	12,61N,25W	Grundy	X	X		A			
Crystal Lake	L3	122.0	NW SW32,53N,29W	Ray	X	X		A	X		X
Cut-Off Lake	L3	148.5	01,12,57N,36W	Buchanan	X	X		B			
Cut-Off Lake	L3	674.0	26,27,34,35,53N,19W	Chariton	X	X		B			
D.C. Rogers Lake	L1	195.0	NW NW10,50N,16W	Howard	X	X		B	X		X
Davis Lake	L3	44.0	NE NW15,50N,16W	Howard	X	X		B			
Dearborn Reservoir	L1	7.0	31,55N,34W	Buchanan	X	X		B	X		X
Deer Ridge Community Lake	L3	39.0	18,62N,08W	Lewis	X	X		B	X		
Dexter City Lake	L3	11.0	22,25N,10E	Stoddard	X	X		B			
DiSalvo Lake	L3	210.0	SW NE19,35N,04E	St. Francois	X	X		B	X		
Downing Reservoir	L1	22.9	SW SE17,66N,13W	Schuyler	X	X		B			X
Drexel City Reservoir South	L1	51.0	7,42N,33W	Bates	X	X		B			X
Drexel Lake	L1	28.0	6, 42N,33W	Bates	X	X		B			X
Duck Creek	L3	1,730.0	31,28N,09E; 5, 27N, 9E	Wayne	X	X		B	X		
Eagle Sky Lake	L3	62.0	NW NW35,30N,04E	Wayne	X	X		B	X		
Eagleville Lake	L1	40.0	33,66N,27W	Harrison	X	X		A	X		X
East Arrowhead Lake	L3	55.0	SE SE18,23N,08W	Howell	X	X	X	A			
Edina Lake	L1	9.0	07,62N,11W	Knox	X	X		B	X		X
Edina Reservoir	L1	51.0	12,62N,11W	Knox	X	X		B	X		X
Edwin A Pape Lake	L1	272.5	20,48N,24W	Lafayette	X	X		B	X		X
Ella Ewing Community Lake	L3	15.0	21,64N,10W	Scotland	X	X		A			
Elmwood City Lake	L1	197.0	NW 35,63N,20W	Sullivan	X	X		B			X
Elsie Lake	L3	17.0	30,37N,02E	Washington	X	X		A	X		

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Ethel Lake	L1	23.0	NE NW36,59N,17W	Macon	X	X		B		X	
Ewing Lake	L1	43.0	06,60N,07W	Lewis	X	X		B	X	X	
Fawn Lake	L3	26.0	13,43N,02W	Franklin	X	X		B	X		
Fellows Lake	L1	800.0	NW NE22,30N,21W	Greene	X	X		A	X	X	
Finger Lakes	L3	118.0	19,30,31,50N,12W,24,25,36 ,50N13W	Boone	X	X		A			
Flight Lake	L3	100.0	26,36N,32W	Vernon	X	X		B			
Forest Lake	L1	580.0	SE SW14,62N,16W	Adair	X	X		A		X	
Fountain Grove Lakes	L3	1,366.3	35,57N,22W	Linn	X	X		B	X		
Fourche Lake	L3	49.0	22,23N,01W	Ripley	X	X		A	X		
Fox Valley Lake	L3	89.0	27,66N,08W	Clark	X	X		B	X		
Foxboro Lake	L3	22.0	14,42N,04W	Franklin	X	X		B	X		
Fredricktown City Lake	L1	80.0	06,33N,07E	Madison	X	X		B		X	
Freeman Lake	L1	13.0	SW SW18,44N,32W	Cass	X	X		B		X	
Frisco Lake	L3	5.0	SE SE 02,37N,08W	Phelps	X	X		B			
Garden City Lake	L1	26.0	31,44N,29W	Cass	X	X		B		X	
Garden City New Lake	L1	39.0	NW18,43N,29W	Cass	X	X		B		X	
Gerald City Lake	L3	5.0	12,42N,04W	Franklin	X	X		B			
Glover Spring Lake	L3	23.0	13,47N,09W	Callaway	X	X		B			
Golden Eagle Lake	L3	105.0	SE SW16,48N,04W	Montgomery	X	X		B			
Goose Creek Lake	L3	308.3	NW NW25,38N,06E	Ste. Genevieve/St. Francois	X	X		A	X		
Gopher Lake	L3	38.0	23,47N,31W	Jackson	X	X		B	X		
Gower Lake	L1	11.0	10,55N,33W	Clinton	X	X		B		X	
Green City Lake	L1	57.0	SE NE16,63N,18W	Sullivan	X	X		B		X	
Green City Lake (Old)	L1	60.0	SE18,63N,18W	Sullivan	X	X		A		X	
Hager Lake	L3	9.0	SUR 2969,35N,05E	St. Francois	X	X		B			
Hamilton Lake	L1	80.0	SW SW15,57N,28W	Caldwell	X	X		B	X	X	
Harmony Mission Lake	L3	96.0	15,38N,32W	Bates	X	X		B	X		
Harrison County Lake	L1	280.0	1730,65N,28W	Harrison	X	X		B		X	
Harrisonville City Lake	L1	419.0	SW SW26,46N,31W	Cass	X	X		B	X	X	
Hazel Creek Lake	L1	453.0	SW SW31,64N,15W	Adair	X	X		B		X	
Hazel Hill Lake	L3	62.0	27,47N,26W	Johnson	X	X		B	X		
Helvey Park Lake	L1	11.0	26,53N,33W	Clay	X	X		B		X	
Henke Lake	L3	70.0	SE SE20,46N,09W	Callaway	X	X		B			
Henry Sever Lake	L3	158.0	NE NE14,60N,10W	Knox	X	X		A	X		
Hermit Hollow Lake	L3	8.0	29,44N,02E	Franklin	X	X		B	X		
Ht Point Lake	L3	3.0	24,39N,01E	Washington	X	X		B			
Higbee Lake	L1	13.0	SE SW09,52N,14W	Randolph	X	X		B		X	
Higginsville Reservoir (North)	L1	47.0	NE SW04,49N,25W	Lafayette	X	X		B	X	X	
Higginsville Reservoir (South)	L1	147.1	SW NE09,49N,25W	Lafayette	X	X		B	X	X	
Holden City Lake	L1	290.2	29,46N,28W	Johnson	X	X		B	X	X	
Holden Lake	L3	11.0	12,45N,28W	Johnson	X	X		B	X		
Holden Lake	L3	11.0	07,45N,27W	Johnson	X	X		B			
Holiday Acres Lake	L3	206.1	SE SW17,55N,14W	Randolph	X	X		B			
Horseshoe Lake	L3	56.0	15,56N,36W	Buchanan	X	X		B			
Hough Park Lake	L3	10.0	19,44N,11W	Cole	X	X		B			
Houston Lake	L3	16.0	NW 33,51N,33W	Platte	X	X		A	X		
Howell Mill Lakes	L3	97.0	17,36N,01E	Washington	X	X		A	X		
HS Truman Lake	L2	55,600.0	07,40N,22W	Benton	X	X		A	X	X	
Hunnewell Lake	L3	228.0	NW SW25,57N,09W	Shelby	X	X		B	X		
Hurdland Severs Lake	L3	13.0	1,61N,13W	Knox	X	X		A	X		
Indian Creek Community Lake	L3	185.0	15,27,59N,25W	Livingston	X	X		A	X		
Indian Lake	L3	279.0	22,15,23,39N,05W	Crawford	X	X		A	X		
Iron Mountain Lake	L3	79.0	SE SW32,35N,04E	St. Francois	X	X		B	X		
Izaak Walton Lake	L3	11.0	32,36N,31W	Vernon	X	X		B	X		
Jackass Bend	L3	200.0	32,28,21-19,51N,29W	Ray/Jackson	X	X		B	X		X
Jackrabbit Lake	L3	25.0	15,47N,31W	Jackson	X	X		B	X		
Jamesport City Lake	L1	16.0	22,60N,26W	Daviess	X	X		B		X	
Jamesport Community Lake	L1	27.0	NE 20,60N,26W	Daviess	X	X		A	X	X	
Jasper Lake	L3	43.0	12,60N,06W	Lewis	X	X		A	X		
Jaycee Park Lake	L3	8.0	17,44N,12W	Cole	X	X		B			
Jo Lee Lake	L3	8.0	NESE 19,36N,5E	St. Francois	X	X		B	X		

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Junges Lake	L3	37.0	10,41N,21W	Benton	X	X		A	X		
Kahrs-Boger Park Lake	L3	2.0	15,44N,20W	Pettis	X	X		B	X		
Kellogg Lake	L3	22.0	34,29N,31W	Jasper	X	X		A	X		
King City Lake (South)	L1	29.0	SW SW34,61N,32W	Gentry	X	X		B		X	
King City New Reservoir	L1	25.4	28,61N,32W	Gentry	X	X		B		X	
King City Old Reservoir	L1	12.0	SW NE28,61N,32W	Gentry	X	X		B		X	
King Lake	L3	204.0	13,60N,32W	DeKalb	X	X		A	X	X	
Kiwanis Lake	L3	4.0	SW23,51N,9W	Audrain	X	X		B			
Klontz Lake	L3	14.0	02,39N,04W	Crawford	X	X		A	X		
Knob Noster St. Park Lakes	L3	24.0	29,30,46N,24W	Johnson	X	X		B			
L. Prairie Comm. Lake	L3	95.0	SE SE21,38N,7W	Phelps	X	X		B	X		
La Plata Lake - New	L1	81.0	NW 14,60N,14W	Macon	X	X		B		X	
La Plata Lake - Old	L1	22.0	09,60N,14W	Macon	X	X		B		X	
Labelle Lake #1	L1	18.0	16,61N,09W	Lewis	X	X		B	X	X	
Labelle Lake #2	L1	98.0	NW NE16,61N,09W	Lewis	X	X		B	X	X	
Lake Allaman	L3	6.0	NE 24,56N,30W	Clinton	X	X		A	X		
Lake Annette	L3	65.0	01,44N,33W	Cass	X	X		B	X		
Lake Arrowhead	L3	101.0	18,54N,30W	Clinton	X	X		A	X		
Lake Arrowhead	L3	23.0	NW NE 31, 42N, 2E	Franklin	X	X		A	X		
Lake Briarwood	L3	69.0	SW NE33,40N,04E	Jefferson	X	X		A	X		
Lake Champetra	L3	58.0	NW13,45N,12W	Boone	X	X		A	X		
Lake Cherokee	L3	6.0	14,36N,03E	Washington	X	X		B	X		
Lake Contrary	L3	291.0	26,27,35,57N,36W	Buchanan	X	X		A	X		
Lake Fond du Lac	L3	24.0	SUR 3011,43N,05E	Jefferson	X	X		A	X		
Lake Forest	L3	81.0	SUR 2046,38N,07E	Ste. Genevieve	X	X		B			
Lake Girardeau	L3	144.0	SW SW09,30N,11E	Cape Girardeau	X	X		B	X		
Lake Jacomo	L3	998.0	NE NW11,48N,31W	Jackson	X	X		A	X		
Lake Killamey	L3	61.0	NW NW01,33N,04E	Iron	X	X		A	X		
Lake Lacawanna	L3	10.0	SE SE 11,38N,05E	St. Francois	X	X		B	X		
Lake Lincoln	L3	88.0	SW SE08,49N,01E	Lincoln	X	X		A	X		
Lake Lochaweenoo	L3	39.0	24,47N,08W	Callaway	X	X		A	X		
Lake Loraine	L3	37.0	SUR 1970, 41N,04E	Jefferson	X	X		A	X		
Lake Lotawana	L3	487.0	SE SE29,48N,30W	Jackson	X	X		A	X		
Lake Lucern	L3	41.0	NE SE06,46N,01W	Warren	X	X		A			
Lake Lima	L3	17.0	NE 4,44N,31W	Cass	X	X		B	X		
Lake Marie	L3	60.0	NE NW 36,66N,24W	Mercer	X	X		A			
Lake McGinness	L3	50.0	NW20,55N,30W	Clinton	X	X		B			
Lake Montowese	L3	39.0	27,43N,04E	Jefferson	X	X		A	X		
Lake Nehai Toukayea	L3	228.0	NW NE11,55N,18W	Chariton	X	X		A			
Lake Nell	L3	24.0	22,47N,31W	Jackson	X	X		B	X		
Lake Niangua	L3	256.0	19,37N,17W	Camden	X	X		A	X		
Lake Northwood	L3	77.0	SE NE33,43N,05W	Gasconade	X	X		A			
Lake of the Oaks	L3	53.0	SE SW07,63N,06W	Clark	X	X		A	X		
Lake of the Ozarks	L2	59,520.0	SE SE19,40N,15W	Camden	X	X		A	X		
Lake of the Woods	L3	3.0	NE SW 02,48N,12W	Boone	X	X		B			
Lake Paho	L3	273.0	NE SE25,65N,25W	Mercer	X	X		B			
Lake Serene	L3	59.0	NW NE03,42N,02E	Franklin	X	X		A	X		
Lake Sherwood	L3	120.0	SW SE11,45N,01W	Warren	X	X		A			
Lake Showme	L1	214.0	15,65N,12W	Scotland	X	X		B		X	
Lake Springfield	L3	293.0	19,28N,21W	Greene	X	X		B	X		X
Lake St. Clair #1	L3	52.0	SW SE02,41N,01W	Franklin	X	X		A	X		
Lake St. Louis	L3	444.0	SUR 54 (NE SW26,47N,02E)	St. Charles	X	X		A			
Lake Ste. Louise	L3	71.0	SUR 929 (SW SW27,47N,02E)	St. Charles	X	X		A			
Lake Taneycomo	L2	2,118.6	SW NE8,23N,20W	Taney	X	X	X	A	X	X	
Lake Tapawingo	L3	83.0	NE NE34,49N,31W	Jackson	X	X		A	X		
Lake Thunderbird	L3	33.0	NE,NW 5,41N,01E	Franklin	X	X		A	X		
Lake Thunderhead	L1	859.0	NE NE15,66N,19W	Putnam	X	X		A	X	X	
Lake Timber Ridge	L3	35.0	SW SE 16,43N,06W	Gasconade	X	X		A	X		
Lake Tishomingo	L3	115.0	NE SE5,41N,04E (SUR 3027)	Jefferson	X	X		A	X		

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Lake Tom Sawyer	L3	4.0	04,54N,08W	Monroe	X	X		A			
Lake Torino	L3	7.0	20,42N,02E	Franklin	X	X		B	X		
Lake Tywappity	L3	43.0	SW SE08,29N,13E	Scott	X	X		A			
Lake Viking	L1	552.0	09,59N,28W	Daviess	X	X		A	X	X	
Lake Wanda Lee	L3	97.0	SUR 884, 37N, 7E	Ste. Genevieve	X	X		A			
Lake Wappapello	L2	8,200.0	SE NE3,26N,07E	Wayne/Butler	X	X		A	X		
Lake Wauwanoka	L3	93.0	SE NW01,40N,04E	Jefferson	X	X		A	X		
Lake Winnebago	L3	272.0	NE NW09,46N,31W	Cass	X	X		A	X		
Lakeview Park Lake	L3	25.0	SW35,51N,09W	Audrain	X	X		B			
Lakewood Lakes	L3	279.0	NE NE07,48N,31W & SW SW 5, 48N, 31W	Jackson	X	X		A	X		
Lamar Lake	L1	148.0	SW NW32,32N,30W	Barton	X	X		B		X	
Lamine River C.A. Lakes	L3	37.0	25,26,27,36,46N,19W; 2,11,45N,19W; 7,18,45N,18W	Cooper/Morgan	X	X		B	X		
Lancaster City Lake - New	L1	56.0	23,66N,15W	Schuyler	X	X		B		X	
Lancaster Lake - Old	L1	23.0	SW NE14,66N,15W	Schuyler	X	X		B		X	
Lane Lake	L3	10.0	32,37N,01W	Washington	X	X		A	X		
Lawson City Lake	L1	25.0	31,54N,29W	Ray	X	X		A	X	X	
Leisure Lake	L3	38.0	NE SE05,61N,25W	Grundy	X	X		A			
Leisure Lake	L3	45.0	33,48N,08W	Callaway	X	X		A	X		
Lewis & Clark Lake	L3	403.0	27,28,33,55N,37W	Buchanan	X	X		A	X		
Lewis Lake	L3	6.0	SE, NE 10,26N,11E	Stoddard	X	X		B			
Lewistown Lake	L1	35.0	NW SW08,61N,08W	Lewis	X	X		B	X	X	
Liberty Park Lake	L3	1.0	04,45N,21W	Pettis	X	X		B			
Limpp Community State Lake	L3	27.0	29,61N,32W	Gentry	X	X		B	X		
Linneus Lake	L1	17.0	NE SW36,59N,21W	Linn	X	X		B	X	X	
Lions Lake	L3	11.0	16,44N,01W	Franklin	X	X		B	X		
Lions Lake	L3	8.0	SW SE 26,46N,26W	Johnson	X	X		B	X		
Lisle Pond	L3	22.0	05,43N,33W	Cass	X	X		B	X		
Little Compton Lake	L3	36.0	29,32,55N,21W	Carroll	X	X		B	X		
Little Dixie Lake	L3	176.0	SW SE26,48N,11W	Callaway	X	X		B	X		
Loch Leonard	L3	27.0	SE18,46N,30W	Cass	X	X		B	X		
Loggers Lake	L3	21.0	10,15,31N,03W	Shannon	X	X		A	X		
Lone Jack Lake	L3	31.0	11,47N,30W	Jackson	X	X		B	X		
Lone Tree Lake	L3	21.0	N NE15,46N,6W	Montgomery	X	X		B	X		
Lonedell Lake	L3	40.0	16,40N,02E	Franklin	X	X		B	X		
Long Branch Lake	L2	2,686.0	NW18,57N,14W	Macon	X	X		A	X	X	
Long Lake	L3	10.0	NW NW 03,25N,12E	Stoddard	X	X		B			
Longview Lake	L2	953.0	04,47N,32W	Jackson	X	X		A	X		
Lost Valley Lake	L3	37.0	SE NE17,43N,04W	Gasconade	X	X		A	X		
Lower Taum Sauk Lake	L3	200.0	33,33N,02E	Reynolds	X	X		B	X		
Lucky Clover Lake	L3	20.0	20,38N,04W	Crawford	X	X		A	X		
Mac Lake - Ziske	L3	28.0	SW NE 17,34N,05W	Dent	X	X		B	X		
Macon Lake	L3	189.0	SE NW17,57N,14W	Macon	X	X		B		X	
Malta Bend Community Lake	L3	4.0	25,51N,23W	Saline	X	X		B	X		
Manito Lake	L3	77.0	08,09,44N,17W	Moniteau	X	X		B	X		
Maple Leaf Lake	L3	127.0	04,48N,26W	Lafayette	X	X		B	X		
Marais Temps Clair	L3	725.7	19,48N,06E and 24,48N,5E	St. Charles	X	X		B	X		
Marceline City Lake (New)	L1	200.0	SW SE14,56N,19W	Chariton	X	X		B		X	
Marceline Reservoir	L1	68.0	SE 28,57N,18W	Linn	X	X		B		X	
Mark Twain Lake	L2	18,132.0	26,55N,07W	Ralls	X	X		A	X	X	
Marshall Habilitation Center Lake	L3	10.0	11,50N,21W	Saline	X	X		B	X		
Martin Lakes	L3	17.0	11,26N,11E	Stoddard	X	X		B			
Maysville Lake	L1	27.0	NE NE 4, 58N,31W	DeKalb	X	X		B	X	X	
Maysville Lake	L1	12.0	NW NE03,58N,31W	DeKalb	X	X		B	X	X	
McCormack Lake	L3	9.0	NW SW 24,25N,04W	Oregon	X	X		A	X		
McDaniel Lake	L1	218.0	NE SE26,30N,22W	Greene	X	X		B		X	
Melody Lake	L3	32.0	27,42N,03W	Franklin	X	X		A	X		
Memphis Reservoir	L1	39.0	NE NE14,65N,12W	Scotland	X	X		B		X	
Middle Fork Water Comp.	L1	103.0	NW SW06,63N,31W	Gentry	X	X		B	X	X	
Milan Lake North	L1	13.0	SE SE02,62N,20W	Sullivan	X	X		B		X	

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Milan Lake South	L1	37.0	SE SE,02,62N,20W	Sullivan	X	X		B			X
Mineral Lake	L3	8.0	01,42N,03W	Franklin	X	X		B	X		
Monopoly Lake	L3	1,045.0	30,27N,08E	Stoddard/Wayne	X	X		B	X		
Monroe City Lake	L1	94.0	SW,NE,34,56N,07W	Ralls	X	X		A	X	X	
Monroe City Lake A	L1	17.0	NW NW13,56N,08W	Monroe	X	X		B		X	
Monroe City Lake B	L1	55.0	30,56N,07W	Monroe	X	X		B	X	X	
Monsanto Lake	L3	18.0	[19, 20,36N,05E] SE NW 20,36N,5E	St. Francois	X	X		A	X		
Montrose Lake	L3	1,444.0	NE NW33,41N,27W	Henry	X	X		B			X
Mozingo Lake	L1	898.0	13,64N,35W	Nodaway	X	X		B	X	X	
New Cambria Lake	L1	9.0	SW NE07,57N,16W	Macon	X	X		B		X	
Nims Lake	L3	251.0	SW NW24,34N,06E	Madison/St. Francois	X	X		A			
Noblett Lake	L3	26.0	25,26N,11W	Douglas	X	X		A			
Nodaway Lake	L3	73.0	SW NE20,65N,35W	Nodaway	X	X		B	X		
Norfolk Lake	L2	1,000.0	21N,12W	Ozark	X	X		A	X		
North Bethany City Reservoir	L3	78.0	SE27,64N,28W	Harrison	X	X		A	X		
North Lake	L3	19.0	SW NE28,45N,31W	Cass	X	X		B	X		
North Sever Lake	L3	12.5	20,63N,11W	Knox	X	X		B	X		
O'Brian Lake	L3	50.0	NW NW19,47N,01E	St. Charles/Warren	X	X		B			
Odessa Lake	L1	87.0	NW NE15,48N,28W	Lafayette	X	X		B	X	X	
Odessa Lake (Old)	L1	22.0	NW NW14,48N,28W	Lafayette	X	X		B		X	
Old Bethany City Reservoir	L1	18.0	02,63N,28W	Harrison	X	X		B		X	
Old Mud Lake	L3	126.0	16,20,21, 56N,36W	Buchanan	X	X		B			
Old Plattsburg Lake	L1	15.0	13,55N,32W	Clinton	X	X		B		X	
Opossum Hollow Lake	L3	63.0	SW NE29,39N,03W	Crawford	X	X		A	X		
Oscie Ora Acres Lake	L3	50.0	SE NW10,28N,33W	Jasper	X	X		B			
Otter Lake	L3	250.0	17,24N,09E	Stoddard	X	X		B	X		
Painted Rock Lake	L3	5.0	11,42N,11W	Osage	X	X		B			
Palmer Lake	L3	102.0	22,36N,01E	Washington	X	X		A	X		
Panther Creek D-1 Lake	L3	28.0	32,65N,26W	Harrison	X	X		B			
Parker Lake #1	L3	20.0	SE SE 31,35N,09E	Perry	X	X		A			
Parker Lake No. 2	L3	80.0	NE SW32,35N,09E	Perry	X	X		A			
Parole Lake	L3	42.0	07,36N,01E	Washington	X	X		A	X		
Paul Herring Lake	L3	44.0	NW SW17,46N,09W	Callaway	X	X		B			
Peabody Wildlife Area Lakes	L3	36.0	04/09,38N,32W	Bates	X	X		B	X		
Peaceful Valley Lake	L3	158.0	NE NE25,42N,06W	Gasconade	X	X		A			
Peculiar Lake	L1	25.0	SE SW22,45N,32W	Cass	X	X		B		X	
Penn's Pond Lake	L3	8.0	06,34N,11W	Pulaski	X	X		B	X		
Perco Lakes	L3	21.7	SW5, NW8, 34N,10E	Perry	X	X		B			
Perry C.A. Lakes	L3	16.4	28.33.34.36.48N,24W;30.48 N,23W	Johnson	X	X		B	X		
Perry County Community Lake	L3	89.0	SW NE22,35N,10E (SUR 856)	Perry	X	X		B			
Pershing St. Park Lakes	L3	12.0	2,11,57N,21W	Linn	X	X		A			
Peters Lake	L3	62.0	NW NW4,50N,16W	Howard	X	X		B	X		
Pike Lake	L3	17.0	02,59N,25W	Livingston	X	X		A	X		
Pim Lake	L3	7.0	SWNW 20,36N,5E	St. Francois	X	X		A	X		
Pinewoods Lake	L3	22.0	07,26N,03E	Carter	X	X		B	X		
Pinnacle Lake	L3	115.0	SE NE24,47N,05W	Montgomery	X	X		A			
Plattsburg 6 Mi. Lane Lk.	L3	57.0	SW SE11,55N,32W	Clinton	X	X		B		X	
Pleasant Hill Lake	L1	91.0	SW SE01,46N,31W	Cass	X	X		B	X	X	
Plover Lake	L3	14.0	15,47N,31W	Jackson	X	X		B	X		
Poague C.A. Lakes	L3	80.0	19,30,42N,26W, 24,42N,27W	Henry	X	X		B	X		
Pomme de Terre Lake	L2	7,820.0	SW NE2,36N,22W	Hickory/Polk	X	X		A	X		
Pony Express Lake	L3	240.0	NE 33,58N,31W	DeKalb	X	X		A	X		
Port Hudson Lake	L3	48.0	16,43N,03W	Franklin	X	X		B	X		
Port Perry Lake	L3	155.0	NE SE08,34N,09E	Perry	X	X		B			
Potosi Lake	L3	20.0	SW NW 35,37N,03E	Washington	X	X		A	X		
Prairie Home C.A. Lakes	L3	20.0	4,5,6,46N,15W	Cooper/Moniteau	X	X		B	X	X	
Prairie Lee Lake	L3	144.0	NE SW27,48N,31W	Jackson	X	X		A	X		
Primrose Lake	L3	33.0	23,38,04E	St. Francois	X	X		B	X		

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Radio Springs Lake	L3	8.0	08,35N,31W	Vernon	X	X		B	X		
Railroad Lake	L3	8.0	34,45N,15W	Moniteau	X	X		B	X		
Raintree Lake	L3	248.1	06,46N,31W	Cass	X	X		A	X		
Raintree Plantation Lake	L3	115.0	29,41N,04E	Jefferson	X	X		A	X		
Ray County Community Lake	L3	23.0	13,52N,28W	Ray	X	X		A	X		
Raymond Claus Lake	L3	8.7	SE SE17,27N,11E	Stoddard	X	X		B			
Rice Lake East	L3	11.0	09,27N,11E	Stoddard	X	X		B			
Rice Lake West	L3	4.0	SENE 9,27N,11E	Stoddard	X	X		B	X		
Rinquin Trail Community Lake	L3	27.0	NE 29,39N,11W	Maries	X	X		B	X		
Ripley Lake	L3	18.0	10,23N,01E	Ripley	X	X		A	X		
Riss Lake	L3	134.0	SW SW25,51N,33W	Platte	X	X		B	X		
Roach Lake	L3	106.0	30,57N,23W	Livingston	X	X		A	X		
Robert G. Delaney Lake	L3	110.0	30,27N,16E	Mississippi	X	X		B			
Roby Lake	L3	10.0	34/35,33N,11W	Texas	X	X		A	X		
Rock House Lake	L1	62.0	NE SW 36,65N,27W	Harrison	X	X		A	X	X	
Rocky Fork Lake	L3	60.0	NW SE31,50N,12W	Boone	X	X		B			
Rocky Hollow Lake	L3	20.0	SE33,53N,30W	Clay	X	X		B	X		
Rothwell Lake	L3	27.0	SE NE03,53N,14W	Randolph	X	X		B	X		
Salisbury City Lake (Pine Ridge Lake)	L3	25.0	15,53N,17W	Chariton	X	X		B	X		
Savannah City Reservoir	L1	20.0	07,59N,35W	Andrew	X	X		A	X	X	
Sayersbrook Lake	L3	36.0	NE SE28,38N,01E	Washington	X	X		B			
Scheff Lake	L3	371.0	SE NE06,37N,28W	St. Clair/Vernon	X	X		A	X		
Schuyler Co. PWS #1 Lake	L1	33.0	SE SE04,64N,01SW	Schuyler	X	X		B		X	
Scioto Lake	L3	5.0	NE NE 30,38N,06W	Phelps	X	X		B			
Sears Community Lake	L3	32.0	18,63N,19W	Sullivan	X	X		A	X		
See Tal Lake	L3	11.0	NW NW01,45N,05W	Gasconade	X	X		B			
Sequiota Park Lake	L3	3.0	09,28N,21W	Greene	X	X		B			
Settles Ford C.A. Lakes	L3	968.0	33,43N,29W;4,5,8-10,15-18,42N,29W;13,42N,30W	Bates	X	X		B	X		
Seven Springs Lake	L3	18.0	23-24,36N,06W	Phelps	X	X		A	X		
Shawnee Lake - Turner	L3	15.0	SW NW 17,34N,05W	Dent	X	X		B	X		
Shelbina Lake	L1	45.0	NE SW20,57N,10W	Shelby	X	X		B	X	X	
Shelbyville Lake	L1	32.0	SE SE19,58N,10W	Shelby	X	X		B	X	X	
Shepard Mountain Lake	L1	21.0	01,33N,03E	Iron	X	X		B	X	X	
Silver Lake	L3	54.0	SW SW16,46N,32W	Cass	X	X		B	X		
Silver Lake-Levee 3	L3	2,464.0	06,55N,20W	Chariton	X	X		B			
Sims Valley Community Lake	L3	42.0	17,20,27N,08W	Howell	X	X		A	X		
Smithville Lake	L2	7,190.0	E SW13,53N,33W	Clay	X	X		A	X	X	
Soow Hollow Lake	L3	31.0	26/27,34N,03E	Iron	X	X		B	X		
South Pool-Levee 3	L3	263.0	1,2,11,12,13,55N,21W	Chariton	X	X		B			
Spencer Lake	L3	7.0	NW19,66N,14W	Schuyler	X	X		B			
Sportsman Lake	L1	7.0	NE SE,04,49N,06W	Montgomery	X	X		B		X	
Spring Fork Lake	L1	178.0	NE SW21,44N,21W	Pettis	X	X		B	X	X	
Spring Lake	L3	87.0	10,61N,16W	Adair	X	X		A			
Squaw Creek NWR Pools	L3	1,230.0	36,61N,39W	Holt	X	X		B			
Sterling Price Community Lake	L3	23.0	17,53N,17W	Chariton	X	X		A	X		
Stockton Lake	L2	23,680.0	NE NE15,34N,26W	Cedar	X	X		A		X	
Strobel Lake	L3	33.0	SW SW 01,27N,09E	Stoddard	X	X		B			
Sugar Creek Lake	L1	308.0	NE SE16,54N,14W	Randolph	X	X		B		X	
Sullivan City Lake	L3	5.0	NE NW 20,40N,02W	Crawford	X	X		B			
Summerset & Fisherman's Lakes	L3	75.0	SW15,39N,04E	Jefferson	X	X		A	X		
Sunfish Lake	L3	27.0	SUR 3097, 155, 1840, 47N,07E	St. Louis	X	X		B	X		
Sunnen Lake	L3	206.0	SW SE04,37N,01E	Washington	X	X		A			
Sunrise Lake	L3	21.0	NE SW 36,39N,04E	Jefferson	X	X		A	X		
Sunset Lake	L3	50.2	NW SE33,39N,07E	Ste. Genevieve	X	X		B			
Sunset Lake	L3	6.0	13,44N,12W	Cole	X	X		B			
Sunshine Lake	L3	500.0	19,29,32,51N,27W	Ray	X	X		A	X		X
Swan Lake-Levee 5	L3	1,425.0	10,55N,21W	Chariton	X	X		B			
Table Rock Lake	L2	41,747.0	SW NW22,22N,22W	Stone	X	X		A	X		
Tarsney Lake	L3	17.0	SE SE22,48N,30W	Jackson	X	X		A	X		

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Tea Lake No. 1	L3	25.0	08,41N,04W	Gasconade	X	X		B	X		
Teal Lake	L3	84.0	NE SW36,51N,09W	Audrain	X	X		B	X		
Tebo Freshwater Lake	L3	250.0	SW SW25,43N,25W	Henry	X	X		B			
Ten Mile Pond	L3	70.0	07,04,03,24N,16E	Mississippi	X	X		B			
Terre Du Lac Lakes	L3	371.4	(18,19,20,28,29,30,31)37N,4St. Francois E,25,37N,3E		X	X		A	X		
Thirtyfour Corner Blue Hole	L3	9.0	35,25N,17E	Mississippi	X	X		B			
Thomas Hill Reservoir	L2	4,400.0	NE SE24,55N,16W	Randolph	X	X		A		X	X
Timberline Lakes	L3	51.0	23,24,38N,04E	St. Francois	X	X		A	X		
Tobacco Hills Lake	L3	16.0	NW11,53N,35W	Platte	X	X		B	X		
Tom Bird Blue Hole	L3	6.0	29,27N,18E	Mississippi	X	X		B			
Trenton Lake Lower	L1	103.0	SW 15,61N,24W	Grundy	X	X		B		X	
Trenton Lake Upper	L1	68.0	NE SE15,61N,24W	Grundy	X	X		B		X	
Twin Borrow Pits	L3	44.0	13,20N,13E	Pemiscot	X	X		B	X		
Twin Lake	L3	49.0	NW NW31,66N,23W	Mercer	X	X		B			
Twin Lakes	L3	22.9	SW SW,22,48N,13W	Boone	X	X		A	X		
Union City Lake	L3	5.0	27,43N,01W	Franklin	X	X		B			
Unionville (Old) Lake	L1	13.0	34,66N,19W	Putnam	X	X		A	X	X	
Unionville Reservoir	L3	74.0	27,66N,19W	Putnam	X	X		B			
Unity Village Lake #1	L1	16.0	25,48N,32W	Jackson	X	X		B	X	X	
Unity Village Lake #2	L1	26.0	24,48N,32W	Jackson	X	X		B	X	X	
Valle Lake	L3	42.0	31,39N,05E	Jefferson	X	X		A	X		
Van Meter St. Park Lake	L3	8.0	24,52N,22W	Saline	X	X		A	X		
Vandalia Community Lake	L3	35.0	SE35,52N,06W	Audrain	X	X		B			
Vandalia Reservoir	L1	28.0	NE NE12,53N,05W	Pike	X	X		B	X	X	
Wahoo Lake	L3	10.0	14,38N,04E	St. Francois	X	X		B	X		
Wakonda Lake	L3	78.0	13,14,60N,06W	Lewis	X	X		A	X		
Walt Disney Lake	L3	19.0	31,57N,18W	Linn	X	X		A			
Water Works Lake	L1	22.0	NE SE 03,53N,14W	Randolph	X	X		B	X	X	
Watkins Mill Lake	L3	87.0	NW 22,53N,30W	Clay	X	X		A	X		
Waukomis Lake	L3	76.0	SW 17,51N,33W	Platte	X	X		A	X		
Weatherby Lake	L3	185.0	SW SE15,51N,34W	Platte	X	X		A	X		
Wellsville City Lake	L1	12.0	NW SE 33,50N,06W	Montgomery	X	X		A		X	
West Arrowhead Lake	L3	58.0	18,23N,08W	Howell	X	X	X	B	X		
Whetstone Creek C.A. Lakes	L3	62.0	5,6,8,9,48N,07W; 31,32,49N 7W	Callaway	X	X		B	X		
Whispering Valley Lakes	L3	30.0	35,44N,03W	Franklin	X	X		A	X		
WhitesideLake White Memorial SWA	L3	28.0	SW SUR 1686,51N,01W	Lincoln	X	X		B	X		
Wildwood Lake	L3	17.0	NE 09,48N,32W	Jackson	X	X		B			
Willow Brook Lake	L1	53.0	SE NE 04,58N,13W	DeKalb	X	X		B		X	
Willow Lake	L3	29.0	27-34,34N,32W	Vernon	X	X		B	X		
Willowwood Lake	L3	45.0	26 & 35,48N,05E	St. Charles	X	X		B	X		
Windsor City Lake	L3	16.0	06,43N,23W	Pettis	X	X		B			
Winegar Lake	L3	8.0	18,43N,13W	Cole	X	X		B			
Wing Lake	L3	19.9	NW SW 14, 35N,03E	Washington	X	X		A	X		
Wolf Bayou Mud Bayou	L3	37.0	04,19N,13E	Pemiscot	X	X		B	X		
Worth County Community Lake	L3	17.0	32,65N,32W	Worth	X	X		B	X		
Wyaconda Lake	L1	9.0	NW NW33,65N,09W	Clark	X	X		B	X	X	

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TABLE H-STREAM CLASSIFICATIONS AND USE DESIGNATIONS

WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	WBC	SCR	DWS	IND
100 K Statewide Extent	C	84,845.0	Statewide	Statewide	Statewide		x	x	x			B	x		
AB Cr.	C	4.2	Mouth	32,37N,18W	Dallas	Camden		x	x			B			
Ackerman Ditch	C	14.1	Mouth	24,24N,6E	Butler		x	x	x			B			
Agee Cr.	C	4.8	Mouth	24,61N,34W	Andrew			x	x			B			
Alder Br.	C	4.7	2,34N,26W	5,34N,25W	Cedar			x	x			B			
Alder Cr.	C	11.4	Mouth	21,35N,28W	Cedar			x	x			B			
Allen Br.	P	1.8	Mouth	22,37N,1E	Washington			x	x			B			
Allen Br.	C	1.5	22,37N,1E	34,37N,1E	Washington			x	x			B			
Allen Br.	C	3.0	Mouth	05,34N,05E	St. Francois			x	x			B			
Alley Br.	P	1.5	Mouth	25,29N,5W	Shannon			x	x			B			
Alley Br.	C	2.6	25,29N,5W	22,29N,5W	Shannon			x	x			B			
Allie Cr.	C	2.6	Mouth	1,33N,10E	Cape Girardeau	Bollinger		x	x			B			
Anderson Br.	C	1.0	Mouth	31,45N,20W	Pettis			x	x			B			
Anderson Cr.	C	1.9	Mouth	31,33N,09W	Texas			x	x			B			
Andrews Br.	C	1.8	Mouth	Sur 3062,37N,6E	St. Francois			x	x			B			
Anthony Br.	P	0.5	Mouth	6,22N,5W	Oregon			x	x			B			
Antire Cr.	P	1.9	Mouth	34,44N,4E	St. Louis			x	x			B			
Apple Cr.	P	44.8	Mouth	21,34N,10E	Perry			x	x			A	x	x	
Apple Cr.	C	1.7	16,34N,10E	18,34N,10E	Perry			x	x			B			
Arapahoe Cr.	C	8.0	Mouth	11,61N,36W	Andrew			x	x			B			
Archer Cr.	P	1.2	Mouth	14,41N,20W	Benton			x	x			B			
Arnault Br.	P	2.2	Mouth	10,38N,2E	Washington			x	x			B			
Arnault Br.	C	1.0	10,38N,2E	15,38N,2E	Washington			x	x			B			
Arnold Cr.	C	1.1	Mouth	24,40N,1E	Washington			x	x			B			
Arthur Cr.	P	5.9	Mouth	14,31N,9W	Texas			x	x			B			
Arthur Cr.	C	2.5	14,31N,9W	25,31N,9W	Texas			x	x			B			
Ash Ditch	P	6.6	Mouth	13,25N,14E	New Madrid			x	x			B			
Ash Ditch	C	8.0	13,25N,14E	5,26N,15E	New Madrid	Mississippi		x	x			B			
Ash Slough Ditch	P	17.2	Mouth	35,26N,13E	New Madrid		x	x	x			B	x		
Asher Cr.	P	8.7	Mouth	4,30N,23W	Polk	Greene		x	x			B			
Asher Cr.	C	4.0	4,30N,23W	14,30N,23W	Greene			x	x			B			
Asher Cr.	P	1.0	Mouth	1,26N,7E	Wayne			x	x			B			
Asher Cr.	C	1.2	1,26N,7E	2,26N,7E	Wayne			x	x			B			
Asher Hollow Cr.	C	4.0	Mouth	24,37N,06W	Crawford	Phelps		x	x			B			
Ashley Br.	P	0.5	Mouth	30,39N,1W	Washington			x	x			B			
Ashley Br.	C	1.6	30,39N,1W	32,39N,1W	Washington			x	x			B			
Ashley Cr.	P	2.5	Mouth	35,32N,7W	Dent			x	x			B			
Ashly Br.	C	0.7	Mouth	27,38N,1E	Washington			x	x			B			
Aslinger Br.	P	1.0	Mouth	16,32N,8E	Madison			x	x			B			
Aslinger Br.	C	1.0	16,32N,8E	County Line	Madison			x	x			B			
Atwell Cr.	P	1.2	Mouth	2,38N,12W	Miller			x	x			B			
Atwell Cr.	C	2.0	2,38N,12W	11,38N,12W	Miller			x	x			B			
Auxvasse Cr.	P	8.2	Mouth	8,46N,8W	Callaway			x	x			B	x		
Auxvasse Cr.	C	39.9	8,46N,8W	22,49N,10W	Callaway			x	x			B			
Avery Hollow	C	0.9	Mouth	04,38N,03W	Crawford			x	x			B			

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Bachelor Cr.	C	6.8	Mouth	19,49N,7W	Callaway			x	x			B			
Back Cr.	C	3.8	Mouth	11,35N,6E	St. Francois			x	x			B			
Bagby Br.	C	2.3	Mouth	1,52N,16W	Randolph			x	x			B			
Bailey Br.	P	1.8	Mouth	31,36N,1W	Washington			x	x			B			
Baileys Cr.	P	15.7	Mouth	5,44N,7W	Gasconade	Osage		x	x			B			
Baileys Cr.	C	6.6	5,44N,7W	20,44N,7W	Osage			x	x			B			
Baker Br.	C	3.5	Mouth	35,38N,28W	St. Clair			x	x			B			
Baker Cr.	C	3.5	32,29N,15W	12,28N,16W	Wright			x	x			B			
Bald Ridge Cr.	C	10.0	Mouth	13,33N,11W	Pulaski	Texas		x	x			A			
Ball Pond Hollow	C	1.5	Mouth	32,24N,11W	Ozark			x	x			B			
Baltimore Cr.	C	2.0	Mouth	33,33N,9E	Bollinger			x	x			B			
Bank Br.	C	5.5	Mouth	35,37N,17W	Camden			x	x	x		B			
Bannister Hollow	C	4.3	Mouth	36,38N,19W	Camden			x	x			B			
Barber Cr.	C	9.1	Mouth	3,65N,22W	Sullivan	Putnam		x	x			B			
Barbers Cr.	C	3.3	Mouth	8,25N,19W	Christian			x	x			B			
Barker Cr.	C	15.0	Mouth	09,43N,23W	Henry	Pettis		x	x			B			
Barn Hollow	C	8.2	Mouth	18,27N,7W	Texas	Howell		x	x			B			
Barnes Cr.	C	1.4	Mouth	34,29N,7E	Wayne			x	x			B			
Barnes Cr.	C	1.0	Mouth	4,33N,6E	Madison			x	x			B			
Barney Cr.	C	4.8	Mouth	24,34N,3W	Dent			x	x			B			
Barnitz Prong	P	4.1	Mouth	21,34N,7W	Dent			x	x			B			
Barren Cr.	C	2.8	Mouth	3,33N,24W	Polk			x	x				x		
Barren Cr.	C	2.6	State Line	8,21N,11W	Ozark			x	x			B			
Barren Fk.	P	7.7	Mouth	30,39N,13W	Miller			x	x	x		A			
Barren Fk.	C	2.6	30,39N,13W	5,38N,13W	Miller			x	x			A			
Barren Fk.	C	4.4	Mouth	5,43N,4W	Franklin	Gasconade		x	x			B			
Barren Fk.	C	11.6	Mouth	10,23N,14W	Ozark			x	x			B			
Barren Fk.	P	2.0	Mouth	29,31N,4W	Shannon			x	x		x	B			
Barren Fk.	P	8.2	20,31N,4W	32,32N,4W	Shannon	Dent		x	x			B			
Barren Fk.	C	2.6	32,32N,4W	28,32N,4W	Dent			x	x			B			
Barren Hollow	C	0.5	Mouth	16,33N,5E	Madison			x	x			B			
Barret Hollow	C	1.5	Mouth	1,22N,15W	Ozark			x	x			B			
Bartlett Cr.	C	8.2	Mouth	9,49N,17W	Howard			x	x			B			
Basin Fk.	C	13.5	Mouth	17,44N,23W	Pettis			x	x			B			
Bass Cr.	C	4.4	Mouth	Hwy. 63	Boone			x	x			A			
Bates County Drainage Ditch	P	23.6	Mouth	2,39N,33W	Bates		x	x	x			A	x	x	
Bates Cr.	P	1.8	Mouth	16,37N,2E	Washington			x	x			B			
Bates Cr.	C	3.2	16,37N,2E	28,37N,2E	Washington			x	x				x		
Batts Cr.	C	5.3	Mouth	19,52N,16W	Chariton	Howard		x	x			B			
Bauer Br.	C	3.0	Mouth	29,43N,21W	Benton			x	x			B			
Bay De Charles	Pl	8.0	Mouth	14,58N,5W	Marion			x	x			A	x		
Baynham Br.	P	4.0	Mouth	17,26N,31W	Newton			x	x			B			
Bean Br.	C	8.7	Mouth	Hwy. 54	Audrain			x	x			B			
Bean Cr.	C	[6.3] 6.4	Mouth	[9,32N,8W]	Dent	Texas		x	x			B	x		
				16,32N,8W											
Bear Br.	C	3.6	Mouth	6,24N,15W	Ozark			x	x			B			
Bear Br.	C	2.2	Mouth	29,31N,3E	Reynolds	Iron		x	x			B			

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Bear Br.	C	2.0	Mouth	19,44N,15W	Moniteau			x	x			B			
Bear Br.	C	1.5	Mouth	17,31N,10E	Bollinger			x	x			B			
Bear Camp Cr.	C	4.8	Mouth	31,26N,1E	Carter			x	x			B			
Bear Claw Spring	P	0.2	Mouth	33,30N,08W	Texas			x	x			B			
Bear Cr.	C	6.0	Mouth	31,49N,12W	Boone			x	x			B		x	
Bear Cr.	C	1.0	Mouth	31,40N,14W	Miller			x	x			B			
Bear Cr.	C	1.8	Mouth	31,43N,9W	Osage			x	x			B			
Bear Cr.	C	36.2	Mouth	8,61N,14W	Shelby	Adair	x	x	x			B			
Bear Cr.	C	7.4	Mouth	17,40N,27W	Henry			x	x					x	
Bear Cr.	P	3.4	Mouth	15,38N,24W	St. Clair			x	x			A		x	
Bear Cr.	C	4.1	15,38N,24W	35,38N,24W	St. Clair			x	x			B		x	
Bear Cr.	C	9.4	Mouth	2,44N,28W	Johnson			x	x			B			
Bear Cr.	C	5.6	Mouth	5,33N,28W	Cedar			x	x			B			
Bear Cr.	P	30.7	Mouth	20,33N,23W	Cedar	Polk		x	x			B			
Bear Cr.	C	12.7	Mouth	22,35N,15W	Pulaski	Laclede		x	x			B			
Bear Cr.	C	1.8	Mouth	25,29N,11W	Texas			x	x			B			
Bear Cr.	P	2.7	Mouth	36,47N,5W	Montgomery			x	x			B			
Bear Cr.	C	3.0	36,47N,5W	20,47N,4W	Montgomery	Warren		x	x			B			
Bear Cr.	C	16.1	Mouth	4,48N,4W	Lincoln	Montgomery		x	x			B			
Bear Cr.	C	3.0	Mouth	8,37N,4E	St. Francois			x	x			B			
Bear Cr.	P	18.3	Mouth	25,30N,6E	Bollinger	Wayne		x	x			A			
Bear Cr.	P	5.0	Mouth	18,24N,21W	Taney			x	x			A		x	
Bear Cr.	C	5.8	18,24N,21W	36,25N,22W	Taney	Christian		x	x			A		x	
Bear Cr.	C	9.8	Mouth	15,54N,36W	Platte			x	x			B			
Bear Cr.	P	1.5	Mouth	34,43N,04E	Jefferson			x	x			B			
Bear Cr.	C	4.5	Mouth	29,52N,19W	Saline			x	x			B			
Bear Cr.	C	20.0	Mouth	33,65N,10W	Lewis	Scotland		x	x			B			
Bear Cr.	C	9.4	Mouth	8,59N,19W	Linn			x	x			B			
Bear Cr.	P	2.1	Mouth	32,57N,4W	Marion			x	x			B			
Bear Cr.	C	8.5	32,57N,4W	29,57N,5W	Marion			x	x			B			
Bear Cr.	C	9.3	Mouth	32,46N,25W	Johnson			x	x			B			
Beaver Br.	P	2.0	Mouth	36,23N,33W	McDonald			x	x			B			
Beaver Br.	C	3.5	36,23N,33W	19,23N,32W	McDonald			x	x			B			
Beaver Br.	P	1.5	19,23N,32W	17,23N,32W	McDonald			x	x			B			
Beaver Cr.	P	24.1	Mouth	29,30N,12W	Wright	Texas		x	x	x		B			
Beaver Cr.	C	4.2	29,30N,12W	4,29N,12W	Wright			x	x			A			
Beaver Cr.	P	5.7	4,29N,12W	26,29N,12W	Wright	Texas		x	x			B			
Beaver Cr.	C	3.8	Mouth	33,37N,8W	Phelps			x	x			A			
Beaver Cr.	C	1.2	Mouth	14,40N,2W	Crawford			x	x			B			
Beaver Cr.	P	44.5	Mouth	23,27N,17W	Taney	Douglas	x	x	x	x		A		x	
Beaver Cr.	C	2.0	23,27N,17W	10,27N,17W	Douglas			x	x			B			
Beaver Dam Cr.	C	5.0	Mouth	Hwy. 54	Audrain			x	x			B			
Beaverdam Cr.	P	9.5	Mouth	9,24N,4E	Butler	Ripley	x	x	x			A			
Beaverdam Cr.	C	2.0	9,24N,4E	5,24N,4E	Ripley			x	x			B			
Beaverdam Cr.	C	5.7	Mouth	02,46N,23W	Pettis			x	x			B			
Becky Cobb Cr.	C	2.7	Mouth	29,23N,13W	Ozark			x	x			B			
Bee Br.	C	0.7	Mouth	32,46N,23W	Pettis			x	x			B			

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Bee Br.	C	5.9	Mouth	06,47N,23W	Pettis		x	x				B			
Bee Br.	C	5.3	Mouth	20,37N,30W	Vernon		x	x				B			
Bee Br.	C	5.0	Mouth	10,55N,17W	Chariton		x	x				B			
Bee Cr.	C	5.8	Mouth	7,53N,10W	Monroe		x	x				B			
Bee Cr.	C	1.6	Mouth	17,23N,21W	Taney		x	x		x				x	
Bee Cr.	C	5.5	Mouth	5,21N,20W	Taney		x	x				A			
Bee Cr.	C	29.4	Mouth	11,55N,35W	Platte	Buchanan	x	x				B	x		
Bee Fk.	C	8.7	Mouth	30,32N,1W	Reynolds		x	x	x			A			
Bee Rock Hollow	C	1.4	Mouth	33,31N,07W	Texas		x	x				B			
Bee Run	C	2.1	Mouth	24,38N,04E	St. Francois		x	x				B			
Beecham Br.	C	1.6	Mouth	01,36N,29W	Vernon		x	x				B			
Beef Br.	P	2.5	Mouth	11,26N,33W	Newton		x	x				B			
Beehole Hollow	C	2.0	Mouth	33,26N,4E	Butler		x	x				B			
Beeler Br.	P	1.2	Mouth	7,28N,10W	Texas		x	x				B			
Beeler Br.	C	1.2	7,28N,10W	18,28N,10W	Texas		x	x				B			
Beeman Br.	P	1.0	14,23N,34W	24,23N,34W	McDonald		x	x				B			
Belew Cr.	P	7.0	Mouth	28,41N,04E	Jefferson		x	x				B			
Bell Cr.	C	6.0	Mouth	09,37N,12W	Pulaski		x	x						x	
Bell Fountain Ditch	P	18.0	29,16N,9E	12,16N,11E	Dunklin	Pemiscot	x	x				B			
Belleau Cr.	C	5.1	Mouth	6,47N,4E	St. Charles		x	x						x	
Belleview Cr.	C	1.5	32,35N,3E	Sur 2113,35N,3E	Iron		x	x				B			
Ben Br.	C	1.0	Mouth	22,44N,8W	Osage		x	x				B			
Bender Cr.	P	4.3	Mouth	13,31N,9W	Texas		x	x				B			
Bender Cr.	C	3.4	13,31N,9W	5,31N,8W	Texas		x	x				B			
Bennett Cr.	C	2.5	Mouth	30,30N,6E	Wayne		x	x				B			
Bennett Hollow	C	1.8	Mouth	13,23N,15W	Ozark		x	x				B			
Bennett Springs Cr.	P	1.6	Mouth	Bennett Springs	Laclede	Dallas	x	x		x		B			
Bennetts Bayou	P	5.3	State Line	30,22N,10W	Ozark	Howell	x	x				B			
Bennetts Bayou	C	3.0	30,22N,10W	16,22N,10W	Howell		x	x				B			
Bennetts R.	C	5.0	State Line	24,22N,10W	Howell		x	x				B			
Benton Br.	P	0.5	Mouth	11,34N,19W	Dallas		x	x				B			
Benton Br.	C	1.0	11,34N,19W	11,34N,19W	Dallas		x	x				B			
Benton Cr.	P	6.8	Mouth	29,36N,5W	Crawford		x	x				A			
Benton Cr.	C	2.0	29,36N,5W	31,36N,5W	Crawford		x	x				B			
Big Barren Cr.	C	23.4	Mouth	32,26N,2W	Ripley	Carter	x	x	x			A			
Big Berger Cr.	P	12.5	Mouth	26,45N,4W	Franklin		x	x				B			
Big Berger Cr.	C	8.8	26,45N,4W	17,44N,4W	Franklin	Gasconade	x	x				B			
Big Blue Br.	P	0.8	Mouth	12,31N,9E	Bollinger		x	x				B			
Big Blue Br.	C	1.5	12,31N,9E	6,31N,10E	Bollinger		x	x				B			
Big Bottom Cr.	C	1.5	Mouth	Lake Anne	Ste. Genevieve		x	x						x	
Big Bottom Cr.	C	2.1	Lake Anne	13,37N,07E	Ste. Genevieve		x	x				B			
Big Br.	C	0.5	Mouth	22,43N,04W	Franklin		x	x				B			
Big Br.	C	2.8	Mouth	22,46N,11W	Callaway		x	x				B			
Big Branch	C	3.4	Mouth	23,44N,04W	Franklin		x	x				B			
Big Brushy Cr.	P	9.2	Mouth	9,27N,3E	Wayne	Carter	x	x				A			
Big Brushy Cr.	C	7.6	9,27N,3E	4,27N,2E	Carter		x	x				B			
Big Buffalo Cr.	P	5.6	Mouth	06,41N,19W	Benton	Morgan	x	x	x			B	x		

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Big Buffalo Cr.	C	2.8	06,41N,19W	28,42N,19W	Morgan		x	x	x			B			
Big Cane Cr.	C	4.9	State Line	26,22N,5E	Butler		x	x	x			B			
Big Cr.	P	70.5	Mouth	34,47N,31W	Henry	Jackson		x	x			B			
Big Cr.	C	3.3	Mouth	16,42N,3W	Franklin			x	x				x		
Big Cr.	P	10.3	Mouth	25,48N,1W	Lincoln			x	x			A	x		
Big Cr.	C	17.7	25,48N,1W	8,47N,2W	Lincoln	Warren		x	x			B	x		
Big Cr.	C	2.0	Mouth	3,22N,25W	Barry			x	x			B			
Big Cr.	C	9.0	Mouth	25,23N,17W	Taney			x	x			A			
Big Cr.	P	23.0	Mouth	5,31N,2W	Shannon			x	x			A			
Big Cr.	C	28.7	Mouth	5,29N,8W	Shannon	Texas		x	x	x		B			
Big Cr.	P	34.1	Mouth	23,33N,3E	Wayne	Iron		x	x	x		A	x		
Big Cr.	C	0.8	23,33N,3E	23,33N,3E	Iron			x	x			B			
Big Cr.	C	4.3	34,47N,31W	20,47N,31W	Jackson			x	x			B			
Big Cr.	P	31.5	Mouth	9,63N,28W	Daviess	Harrison		x	x			B		x	
Big Cr.	C	1.5	9,54N,23W	17,54N,23W	Carroll			x	x			B			
Big Cr.	P	31.6	Mouth	9,54N,23W	Carroll			x	x			B			
Big Cr.	P	6.1	Mouth	29,31N,7E	Wayne	Madison		x	x			A			
Big Cr. Cutoff	C	1.5	Mouth	1,30N,3E	Iron			x	x			B			
Big Deer Cr.	C	4.6	Mouth	27,42N,31W	Bates			x	x			B			
Big George Br.	C	3.0	Mouth	18,32N,28W	Barton	Dade		x	x			B			
Big Gulch	C	2.2	Mouth	3,27N,11W	Douglas			x	x			B			
Big Hollow	C	3.2	Mouth	23,22N,21W	Taney			x	x			B			
Big Hollow Br.	C	2.0	Mouth	17,32N,10E	Bollinger			x	x			B			
Big Hunting Slough	C	15.9	Mouth	24,23N,6E	Butler			x	x			B			
Big Lake Bayou	C	11.3	Mouth	25,27N,15E	Mississippi			x	x			B			
Big Lake Cr.	P	6.4	Mouth	19,28N,5E	Wayne			x	x			B			
Big Lake Cr.	C	4.4	19,28N,5E	36,29N,4E	Wayne			x	x			B			
Big Lead Cr.	C	5.0	27,50N,2W	18,50N,2W	Lincoln			x	x			B			
Big Muddy Cr.	P	8.0	Mouth	33,60N,27W	Daviess			x	x			B			
Big Muddy Cr.	C	12.0	33,60N,27W	09,61N,27W	Daviess			x	x				x		
Big Muddy Cr.	P	10.2	Mouth	11,64N,30W	Gentry			x	x			B			
Big Muddy Cr.	C	10.9	11,64N,30W	3,65N,29W	Gentry	Harrison		x	x			B			
Big No Cr.	C	4.9	Mouth	26,63N,23W	Grundy			x	x			B			
Big Otter Cr.	C	2.0	Mouth	31,40N,25W	Henry			x	x			B			
Big Paddy Cr.	C	4.0	Mouth	32,33N,10W	Texas			x	x			B			
Big Piney R.	P	96.8	Mouth	16,29N,10W	Pulaski	Texas	x	x	x	x		A	x	x	
Big Piney R.	P	7.8	16,29N,10W	12,28N,11W	Texas			x	x			A	x	x	
Big R.	P	55.6	Mouth	Sur 3166,40N,3E	Jefferson		x	x	x	x		A	x		x
Big R.	P	81.3	Sur 3166,40N,3E	12,35N,1E	Jefferson	Washington		x	x			A			x
Big R.	C	2.8	12,35N,1E	Council Bluff Lk. D.	Washington	Iron		x	x			B			
Big R.	C	2.0	Mouth	32,35N,1E	Iron			x	x			B			
Big River Cr.	C	0.7	Mouth	04,40N,05W	Gasconade			x	x			B			
Big Rock Cr.	C	5.9	8,65N,30W	36,66N,30W	Worth			x	x			B			
Big Rock Cr.	P	3.7	Mouth	8,65N,30W	Worth			x	x			B			
Big Sugar Cr.	P	39.3	Mouth	26,21N,29W	McDonald	Barry	x	x	x	x		A	x		
Big Sugar Cr.	C	4.9	26,21N,29W	20,21N,28W	Barry			x	x			B			

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Big Tavern Cr.	C	3.2	Mouth	23,46N,7W	Callaway			x	x			B			
Bigelow's Cr.	C	5.0	Mouth	15,44N,01E	St. Charles			x	x			B	x		
Billies Cr.	C	6.6	Mouth	36,29N,25W	Lawrence			x	x			B			
Billy Cr.	C	5.5	Mouth	6,62N,16W	Adair			x	x			B			
Billys Br.	C	11.5	Mouth	19,59N,13W	Macon			x	x			B			
Billy's Br.	C	1.6	06,37N,01W	05,37N,01W	Washington			x	x			B			
Billy's Br.	P	2.4	Mouth	06,37N,01W	Crawford	Washington		x	x			B			
Birch Cr.	C	4.5	Mouth	6,42N,1E	Franklin			x	x			B			
Bird Br.	C	1.0	Mouth	14,41N,22W	Benton			x	x			B			
Birkhead Br.	C	2.0	Mouth	17,49N,02E	Lincoln			x	x					x	
Bitterroot Cr.	C	3.0	Mouth	30,37N,33W	Vernon			x	x			B			
Black Cr.	P	19.4	Mouth	29,58N,10W	Shelby			x	x			B			
Black Cr.	C	21.8	29,58N,10W	11,59N,12W	Shelby			x	x			B			
Black Cr.	C	7.3	Mouth	35,43N,32W	Cass			x	x			B			
Black Cr.	P	1.6	Mouth	21,45N,6E	St. Louis			x	x			B	x		
Black Jack Cr.	C	5.0	Mouth	16,47N,25W	Johnson			x	x			B			
Black R.	P	26.9	7,29N,3E	17,32N,2E	Reynolds		x	x	x	x		A	x		x
Black R.	P	47.1	State Line	16,25N,6E	Butler		x	x	x	x		A	x	x	
Black R.	P	39.0	16,25N,6E	Clearwater Dam	Butler	Wayne	x	x	x	x		A	x	x	
Black R. Ditch	P	11.1	State Line	32,23N,7E	Butler		x	x	x			B			
Blackberry Cr.	C	6.5	Mouth	28,30N,33W	Jasper			x	x			B			
Blackbird Cr.	P	9.4	Mouth	2,64N,17W	Adair	Putnam		x	x			A			
Blackwater R.	P	79.4	Mouth	12,46N,27W	Cooper	Johnson	x	x	x			A	x	x	
Blair Cr.	P	8.2	Mouth	31,30N,2W	Shannon			x	x			B			
Blair Cr.	C	4.3	31,30N,2W	18,30N,2W	Shannon			x	x			B			
Blair Hollow	C	1.5	Mouth	1,22N,12W	Ozark			x	x			B			
Blay Cr.	C	2.0	Mouth	36,37N,3E	St. Francois	Washington		x	x			B			
Block Br.	P	0.6	Mouth	18,41N,04W	Gasconade			x	x			B			
Block Br.	C	1.6	18,41N,04W	11,41N,05W	Gasconade			x	x			B			
Bloom Cr.	C	3.0	Mouth	36,36N,7E	Ste. Genevieve			x	x					x	
Blue Cr.	P	1.5	Mouth	6,33N,9E	Bollinger			x	x			B			
Blue Cr.	C	1.0	6,33N,9E	7,33N,9E	Bollinger			x	x			B			
Blue Cr.	C	1.7	Mouth	31,46N,8W	Callaway			x	x			B			
Blue Cr.	P	1.8	Mouth	5,50N,17W	Howard			x	x			B			
Blue Cr.	C	2.6	5,50N,17W	4,50N,17W	Howard			x	x			B			
Blue Ditch	P	5.8	Mouth	14,27N,14E	Scott		x	x	x			B	x		
Blue Ditch	C	5.8	14,27N,14E	29,28N,14E	Scott		x	x	x			B	x		
Blue R.	P	4.4	Mouth	6,49N,32W	Jackson			x	x			B			x
Blue R.	P	9.4	6,49N,32W	2,48N,33W	Jackson			x	x			B	x		x
Blue R.	P	7.7	2,48N,33W	28,48N,33W	Jackson			x	x			A	x		
Blue R.	C	12.0	28,48N,33W	State Line	Jackson			x	x			B	x		
Blue Shawnee Cr.	P	1.6	8,33N,13E	17,33N,13E	Cape Girardeau			x	x			B			
Blue Shawnee Cr.	C	2.5	17,33N,13E	29,33N,13E	Cape Girardeau			x	x			B			
Blue Spring Cr.	P	1.5	Mouth	35,41N,16W	Miller			x	x			B			
Blue Spring Cr.	C	0.5	35,41N,16W	26,41N,16W	Miller			x	x			B			
Blue Spring Slough	C	15.8	34,24N,7E	35,26N,7E	Butler			x	x			B			
Blue Springs Cr.	P	4.3	Mouth	2,39N,3W	Crawford			x	x		x	A			

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Blue Springs Cr.	C	1.2	2,39N,3W	3,39N,3W	Crawford			x	x			B			
Bluewater Cr.	C	1.5	Mouth	11,26N,6E	Wayne	Butler		x	x			B			
Blythes Cr.	P	6.9	Mouth	27,42,15W	Moniteau	Miller		x	x			B	x		
Bobs Cr.	P	4.9	Mouth	Sur 306,49N,2E	Lincoln			x	x			B			
Bobs Cr.	P	1.7	Sur 306,49N,2E	34,49N,2E	Lincoln			x	x			B			
Bobs Cr.	C	14.2	34,49N,2E	27,50N,1E	Lincoln			x	x			B	x		
Boeuf Cr.	P	30.7	Mouth	22,43N,4W	Franklin		x	x	x			A			
Boeuf Cr.	C	8.5	15,43N,4W	5,42N,4W	Gasconade			x	x			B			
Boiling Spr. Hollow	C	1.5	Mouth	3,36N,1W	Washington			x	x			B			
Boiling Spring	P	0.1	Mouth	24,32N,10W	Texas			x	x			B			
Bois Brule Cr.	P	1.8	Mouth	20,42N,12W	Cole			x	x			B			
Bois Brule Cr.	C	9.5	20,42N,12W	20,42N,13W	Cole			x	x			B			
Bois Brule Ditch	P	4.7	Mouth	16,36N,11E	Perry			x	x			B			
Bollinger Br.	C	3.0	Mouth	15,24N,12W	Ozark			x	x			B			
Bollinger Cr.	C	2.4	5,39N,18W	7,39N,18W	Camden			x	x			B			
Bones Br.	C	8.3	Mouth	29,41N,31W	Bates			x	x			B			
Bonhomme Cr.	C	2.5	Mouth	Sur 2031,45N,4E	St. Louis			x	x			B			
Bonne Femme Cr.	P	7.8	Mouth	20,47N,12W	Boone			x	x			A			
Bonne Femme Cr.	C	7.0	20,47N,12W	2,47N,12W	Boone			x	x			B			
Bonne Femme Cr.	P	24.0	Mouth	36,51N,16W	Howard			x	x			B			
Bonne Femme Cr.	C	13.0	36,51N,16W	22,52N,15W	Howard	Randolph		x	x			B			
Boone Cr.	P	3.8	Mouth	16,32N,9W	Texas			x	x			B			
Boone Cr.	C	1.7	16,32N,9W	15,32N,9W	Texas			x	x			B			
Boone Cr.	P	3.5	Mouth	29,41N,3W	Franklin			x	x			B			
Boone Cr.	C	8.0	29,41N,3W	15,40N,3W	Franklin			x	x			B			
Boones Br.	C	2.5	Mouth	5,49N,17W	Howard			x	x			B			
Bounds Cr.	C	2.2	Mouth	30,29N,6E	Wayne			x	x			B			
Bourbeuse R.	P	136.7	Mouth	4,39N,6W	Franklin	Phelps	x	x	x	x		A	x	x	
Bourbeuse R.	C	11.1	4,39N,6W	12,38N,7W	Phelps			x	x	x		A	x		
Bourne Cr.	P	1.9	Mouth	15,42N,4E	Jefferson			x	x			B			
Bradley Br.	C	2.2	Mouth	7,45N,26W	Johnson			x	x			B			
Brashear Hollow	C	0.9	Mouth	33,39N,15W	Camden			x	x			B			
Brawley Cr.	C	2.8	Mouth	26,45N,26W	Johnson			x	x			B	x		
Bray Hollow	C	1.0	Mouth	27,23N,15W	Ozark			x	x			B			
Brazeau Cr.	P	10.8	Mouth	17,34N,13E	Perry			x	x			B			
Brazil Cr.	P	13.9	Mouth	27,38N,1W	Crawford	Washington		x	x			A			
Brazil Cr.	C	1.8	27,38N,1W	26,38N,1W	Washington			x	x			B			
Brewer Lake	P	3.5	8,26N,18E	36,27N,17E	Mississippi			x	x			B			
Brewer Lake Ditch	C	4.5	5,26N,18E	20,26N,18E	Mississippi			x	x			B			
Brewers Cr.	P	2.5	Mouth	29,34N,5E	Madison			x	x			B			
Brewers Cr.	C	1.0	29,34N,5E	19,34N,5E	Madison			x	x			B			
Briar Cr.	C	6.4	Mouth	13,23N,1E	Ripley			x	x			B			
Brickley Hollow	C	0.8	Mouth	35,41N,21W	Benton			x	x			B			
Bridge Cr.	C	1.7	Mouth	36,55N,23W	Carroll			x	x			B			
Bridge Cr.	C	8.4	Mouth	7,65N,13W	Scotland	Schuyler		x	x			B			
Bridge Cr.	C	27.0	Mouth	13,63N,12W	Lewis	Knox		x	x			B			
Bridges Cr.	C	6.4	Mouth	17,22N,11W	Ozark			x	x			B			

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Bright Hollow	C	2.0	Mouth	32,25N,20W	Taney	Christian		x	x			B			
Brixey Cr.	C	2.5	Mouth	17,24N,13W	Ozark			x	x			B			
Broadus Br.	C	2.1	Mouth	15,37N,18W	Camden			x	x			B			
Brock Cr.	P	3.2	Mouth	3,35N,1E	Washington			x	x			B			
Brock Cr.	C	1.5	3,35N,1E	4,35N,1E	Washington			x	x			B			
Browning Hollow	C	1.0	Mouth	20,26N,26W	Lawrence			x	x			B			
Browns Br.	C	2.5	Mouth	6,43N,1E	Franklin			x	x			B			
Browns Br.	C	3.7	6,43N,1E	13,43N,01W	Franklin			x	x			B			
Brush Cr.	C	5.3	Mouth	14,56N,10W	Monroe			x	x			B			
Brush Cr.	C	3.4	Mouth	2,53N,9W	Monroe			x	x			B			
Brush Cr.	C	0.8	Mouth	32,40N,17W	Camden			x	x			B			
Brush Cr.	P	2.2	Mouth	19,42N,23W	Henry	Benton		x	x			B			
Brush Cr.	C	2.3	Mouth	27,38N,25W	St. Clair	Polk		x	x			B			
Brush Cr.	P	12.2	Mouth	31,36N,24W	St. Clair			x	x	x		A			
Brush Cr.	P	4.7	31,36N,24W	16,35N,24W	St. Clair	Polk		x	x			B			
Brush Cr.	P	3.5	Mouth	18,42N,8W	Osage			x	x			B			
Brush Cr.	C	2.4	18,42N,8W	11,42N,9W	Osage			x	x			B			
Brush Cr.	P	6.5	Mouth	27,33N,16W	Laclede			x	x			B			
Brush Cr.	C	2.5	27,33N,16W	32,33N,16W	Laclede			x	x			B		x	
Brush Cr.	C	2.5	Mouth	11,43N,2E	St. Louis	Franklin		x	x			B			
Brush Cr.	C	7.8	Mouth	10,49N,4W	Montgomery			x	x			B			
Brush Cr.	P	1.4	Mouth	3,40N,1W	Franklin			x	x			B			
Brush Cr.	C	2.0	3,40N,1W	10,40N,1W	Franklin			x	x			B			
Brush Cr.	C	1.3	Mouth	26,41N,6W	Gasconade			x	x			B			
Brush Cr.	P	17.5	Mouth	Indian Lake Dam	Gasconade	Crawford		x	x			A			
Brush Cr.	C	2.0	23,39N,5W	27,39N,5W	Crawford			x	x			B			
Brush Cr.	P	7.4	Mouth	11,25N,13W	Ozark	Douglas		x	x			B			
Brush Cr.	C	1.5	11,25N,13W	1,25N,13W	Douglas			x	x			B			
Brush Cr.	C	7.4	Mouth	8,51N,34W	Platte			x	x			B		x	
Brush Cr.	C	2.3	Mouth	24,28N,8E	Wayne			x	x			B			
Brush Cr.	C	8.0	19,42N,23W	35,43N,23W	Benton			x	x			B			
Brush Cr.	P	1.8	Mouth	17,43N,10W	Osage			x	x			B			
Brush Cr.	C	2.0	16,35N,24W	22,35N,24W	Polk			x	x			B			
Brush Cr.	C	5.9	Mouth	36,50N,27W	Lafayette			x	x			B			
Brush Cr.	C	4.5	Mouth	26,66N,25W	Mercoer			x	x			B			
Brush Cr.	C	5.0	Mouth	8,65N,26W	Harrison			x	x			B			
Brush Cr.	C	26.3	Mouth	2,59N,17W	Chariton	Macon		x	x			B			
Brush Cr.	P	0.5	Mouth	27,43N,14W	Cole			x	x			B			
Brush Cr.	C	5.0	27,43N,14W	16,42N,14W	Cole	Miller		x	x					x	
Brush Fk.	C	1.4	Mouth	23,45N,06W	Gasconade			x	x			B			
Brushy Br.	C	1.5	Mouth	1,42N,6W	Gasconade			x	x			B			
Brushy Br.	C	1.8	Mouth	11,49N,7W	Callaway			x	x			B			
Brushy Cr.	P	1.4	Mouth	04,40N,20W	Benton			x	x			B			
Brushy Cr.	P	3.5	Mouth	5,30N,9W	Texas			x	x			B			
Brushy Cr.	C	3.8	5,30N,9W	14,30N,09W	Texas			x	x			B			
Brushy Cr.	C	3.0	Mouth	Sur 1708,51N,1W	Lincoln			x	x			B			
Brushy Cr.	C	3.0	Mouth	4,43N,2W	Franklin			x	x			B		x	

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Brushy Cr.	C	1.9	Mouth	7,35N,9E	Ste. Genevieve			x	x			B			
Brushy Cr.	C	6.4	Mouth	31,24N,17W	Taney			x	x			B			
Brushy Cr.	P	3.0	Mouth	17,30N,3W	Shannon			x	x			B			
Brushy Cr.	C	1.6	17,30N,3W	16,30N,3W	Shannon			x	x			B			
Brushy Cr.	C	4.5	Mouth	25,33N,1W	Reynolds			x	x			B			
Brushy Cr.	P	3.0	Mouth	28,27N,4E	Wayne			x	x			A			
Brushy Cr.	C	1.9	28,27N,4E	30,27N,4E	Wayne			x	x			A			
Brushy Cr.	C	1.0	Mouth	34,31N,4E	Iron			x	x			B			
Brushy Cr.	C	12.1	Mouth	State Line	Nodaway	Worth		x	x			B			
Brushy Cr.	C	1.5	Mouth	27,46N,23W	Pettis			x	x					x	
Brushy Cr.	C	7.0	Mouth	18,54N,29W	Caldwell	Ray		x	x			B		x	
Brushy Cr.	C	0.5	32,46N,21W	5,45N,21W	Pettis			x	x			B			
Brushy Cr.	C	2.2	Mouth	1,52N,32W	Clay			x	x			B			
Brushy Cr.	C	5.4	Mouth	30,60N,26W	Daviess			x	x			B			
Brushy Cr.	C	8.1	Mouth	8,57N,29W	Caldwell			x	x			B			
Brushy Cr.	C	4.5	Mouth	36,65N,14W	Schuyler			x	x			B			
Brushy Cr.	C	5.2	Mouth	7,46N,11W	Boone			x	x			B			
Brushy Cr.	P	3.8	Mouth	SW 32,46N,21W	Pettis			x	x			B			
Brushy Fk.	C	5.0	Mouth	12,39N,14W	Miller			x	x	x		A			
Brushy Fk.	C	1.0	Mouth	12,38N,1W	Washington			x	x			B			
Brushy Fk.	C	4.0	Mouth	21,49N,2E	Lincoln			x	x					x	
Brushy Hollow	C	1.0	Mouth	25,23N,15W	Ozark			x	x			B			
Brushy Hollow Br.	P	1.3	Mouth	Sur 430,37N,2E	Washington			x	x			B			
Bryant Cr.	P	16.4	Mouth	3,23N,12W	Ozark	Douglas		x	x	x		A		x	
Bryant Cr.	P	1.0	3,23N,12W	34,24N,12W	Ozark			x	x		x	A		x	
Bryant Cr.	P	44.8	34,24N,12W	17,27N,15W	Ozark	Douglas		x	x	x		A		x	
Bryants Cr.	C	15.9	Mouth	28,51N,1E	Pike	Lincoln		x	x			B			
Buchler Cr.	P	1.4	Mouth	14,42N,09W	Osage			x	x			B			
Buck Br.	C	5.5	Mouth	18,29N,31W	Jasper			x	x			B			
Buck Cr.	C	1.5	Mouth	23,42N,8W	Osage			x	x			B			
Buck Cr.	C	1.0	Mouth	14,40N,5E	Jefferson			x	x			B			
Buck Cr.	P	4.0	Mouth	24,33N,9E	Bollinger			x	x			B			
Buck Cr.	C	1.2	24,33N,9E	14,33N,9E	Bollinger			x	x			B			
Buck Elk Br.	C	1.0	Mouth	11,41N,8W	Osage			x	x			B			
Buck Elk Cr.	P	1.5	Mouth	9,41N,8W	Osage			x	x			B			
Buck Elk Cr.	C	1.0	9,41N,8W	10,41N,8W	Osage			x	x			B			
Buckeye Cr.	P	3.4	Mouth	14,33N,12E	Cape Girardeau			x	x			B			
Buckeye Cr.	C	2.6	Hwy 61	26,33N,12E	Cape Girardeau			x	x			B			
Bucklick Cr.	C	5.4	Mouth	30,44N,2W	Franklin			x	x			B			
Buffalo Cr.	P	3.4	Mouth	5,53N,1W	Pike			x	x			B			
Buffalo Cr.	C	3.7	5,53N,1W	19,53N,1W	Pike			x	x			B			
Buffalo Cr.	P	5.4	Mouth	20,24N,1E	Ripley			x	x	x		B			
Buffalo Cr.	P	10.7	State Line	7,23N,33W	McDonald			x	x	x	x	A		x	
Buffalo Cr.	P	8.0	5,23N,33W	14,24N,33W	McDonald	Newton		x	x	x	x	A		x	
Buffalo Cr.	C	1.7	14,24N,33W	12,24N,33W	Newton			x	x			B			
Buffalo Cr.	C	2.1	Mouth	28,48N,22W	Saline	Pettis		x	x			B			
Buffalo Ditch	P	17.3	State Line	11,18N,9E	Dunklin			x	x			B			

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Buffalo Ditch	C	3.0	11,18N,9E	36,19N,9E	Dunklin			x	x			B			
Bull Cr.	P	5.0	Mouth	34,24N,21W	Taney		x	x	x		x	A	x		
Bull Cr.	P	18.9	34,24N,21W	33,26N,20W	Taney	Christian	x	x	x	x		A	x		
Bull Cr.	C	3.2	33,26N,20W	22,26N,20W	Christian			x	x			A			
Bullskin Cr.	P	4.9	Mouth	26,24N,32W	McDonald	Newton	x	x	x			B			
Buncomb Br.	C	1.2	Mouth	25,48N,23W	Pettis			x	x			B			
Burgher Br.	C	1.5	Mouth	07,37N,07W	Phelps			x	x			B	x		
Burkhart Br.	C	3.7	Mouth	12,31N,12W	Texas			x	x			B			
Burney Br.	C	4.5	Mouth	21,31N,24W	Dade	Greene		x	x			B			
Burr Oak Cr.	C	6.8	Mouth	19,49N,31W	Jackson			x	x			B			
Burr Oak Cr.	C	2.0	Mouth	33,54N,25W	Carroll			x	x			B			
Burris Fk.	C	8.0	10,43N,16W	25,43N,17W	Moniteau	Morgan		x	x			B			
Burris Fk.	P	13.2	Mouth	10,43N,16W	Moniteau			x	x			A	x		
Burton Br.	C	2.0	Mouth	13,31N,10W	Texas			x	x			B			
Busch Cr.	C	2.0	Mouth	23,44N,1W	Franklin			x	x			B			
Butcher Br.	P	1.4	Mouth	12,40N,03E	Jefferson			x	x			B			
Butcher Cr.	C	1.0	Mouth	15,48N,1E	Lincoln			x	x			B			
Butler Cr.	C	4.0	State Line	17,21N,27W	Barry			x	x			B			
Butler Cr.	P	3.9	Mouth	State Line	McDonald		x	x	x	x		A			
Bynum Cr.	C	5.9	Mouth	16,49N,9W	Callaway			x	x			B			
Byrd Cr.	P	14.6	Mouth	Sur 325,32N,12E	Cape Girardeau			x	x			B			
Byrd Cr.	C	1.5	Sur 325,32N,12E	33,33N,12E	Cape Girardeau			x	x			B			
Cabanne Course	C	1.5	Mouth	3,37N,4E	St. Francois			x	x			B			
Cache R. Ditch	C	7.7	State Line	36,23N,7E	Butler		x	x	x			B			
Cadet Cr.	C	1.0	34,44N,10W	26,44N,10W	Osage			x	x			B			
Cadet Cr.	P	2.1	Mouth	34,44N,10W	Osage			x	x			B			
Cadet Cr.	P	2.0	Mouth	27,38N,3E	Washington			x	x			B			
Cahoonie Cr.	C	4.0	Mouth	9,36N,20W	Dallas			x	x			B			
Calico Cr.	C	5.4	Mouth	02,39N,02E	Jefferson	Washington		x	x			A			
California Br.	C	2.7	Mouth	17,40N,1E	Franklin	Washington		x	x			B			
Callahan Cr.	C	13.8	Mouth	23,50N,14W	Boone			x	x				x		
Callaway Fk.	C	4.5	Mouth	6,45N,2E	St. Charles			x	x			B			
Calton Cr.	C	5.5	Mouth	16,25N,26W	Barry			x	x			B	x		
Calumet Cr.	P	1.8	Mouth	18,53N,1E	Pike			x	x			B			
Calumet Cr.	C	4.0	18,53N,1E	26,53N,1W	Pike			x	x			B			
Calvey Cr.	P	3.0	Mouth	4,42N,2E	Franklin			x	x			B			
Calvey Cr.	C	4.5	4,42N,2E	13,42N,2E	Franklin			x	x			B			
Camp Br.	C	16.1	Mouth	33,45N,30W	Johnson	Cass		x	x			B			
Camp Br.	C	7.3	Mouth	20,39N,29W	Bates			x	x			B			
Camp Br.	C	4.0	Mouth	27,48N,3W	Warren			x	x			B			
Camp Br.	C	4.2	Smithville Lk	36,54N,32W	Clay			x	x			B			
Camp Br.	C	3.5	Mouth	35,29N,10W	Texas			x	x				x		
Camp Br.	C	10.1	Mouth	24,45N,23W	Pettis			x	x			B			
Camp Cr.	C	3.2	Mouth	23,38N,9W	Phelps			x	x			B			
Camp Cr.	P	6.3	Mouth	26,49N,3W	Lincoln	Warren		x	x			B			
Camp Cr.	C	6.0	26,49N,3W	16,48N,3W	Warren			x	x			B			

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Camp Cr.	C	1.0	Mouth	16,25N,21W	Christian			x	x			B			
Camp Cr.	P	5.3	Mouth	34,30N,4E	Wayne			x	x			B			
Camp Cr.	C	1.3	34,30N,4E	33,30N,4E	Wayne			x	x			B			
Camp Cr.	C	2.0	28,36N,6E	29,36N,06E	St. Francois			x	x			B			
Camp Cr.	C	5.5	Mouth	24,50N,20W	Saline			x	x			B			
Campbell Br.	C	2.3	Mouth	7,48N,2E	Lincoln			x	x			B			
Campbell Cr.	C	2.8	Mouth	19,61N,30W	Gentry			x	x				x		
Campbell Cr.	C	5.9	Mouth	24,56N,23W	Livingston			x	x			B			
Cane Cr.	P	8.7	Mouth	Sur 3146,32N,12E	Cape Girardeau			x	x			B			
Cane Cr.	C	4.0	Sur 3146,32N,12E	7,32N,13E	Cape Girardeau			x	x			B			
Cane Cr.	C	4.0	Mouth	28,23N,18W	Taney			x	x	x		B			
Cane Cr.	P	27.5	30,23N,6E	5,25N,5E	Butler		x	x	x	x		A	x		
Cane Cr.	C	15.9	5,25N,5E	15,26N,3E	Butler	Carter		x	x	x		A			
Cane Cr.	C	9.8	Mouth	30,23N,6E	Butler		x	x	x			B			
Cane Cr.	C	3.6	6,29N,10E	27,30N,9E	Bollinger			x	x			B			
Cane Cr.	P	8.4	Mouth	6,29N,10E	Bollinger			x	x			B			
Cane Cr. Ditch	P	7.5	State Line	30,23N,6E	Butler		x	x	x			B	x		
Caney Cr.	C	3.0	Mouth	11,24N,17W	Taney			x	x			A			
Caney Cr.	C	7.0	Mouth	5,23N,13W	Ozark			x	x			B			
Caney Cr.	C	11.5	9,28N,12E	36,29N,13E	Scott			x	x				x		
Caney Fk.	P	5.3	Mouth	3,32N,11E	Cape Girardeau			x	x			B			
Caney Fk.	C	4.0	3,32N,11E	28,33N,11E	Cape Girardeau			x	x			B			
Cannon Br.	P	0.8	Mouth	17,36N,25W	St. Clair			x	x			B			
Cantrell Cr.	P	7.8	Mouth	07,30N,16W	Webster			x	x			B			
Cantrell Cr.	C	5.9	07,30N,16W	32,30N,16W	Webster			x	x			B			
Cape Cr.	P	1.0	Mouth	22,33N,8E	Madison			x	x			B			
Cape Cr.	C	0.5	22,33N,8E	22,33N,8E	Madison			x	x			B			
Cape La Croix Cr.	P	7.2	Mouth	Sur 3314,31N,13E	Cape Girardeau			x	x			B			
Capps Cr.	P	5.0	Mouth	17,25N,28W	Newton	Barry	x	x	x		x	A	x		
Captain Cr.	C	1.0	Mouth	24,32N,5E	Madison			x	x			B			
Carney Cr.	C	4.5	Mouth	3,24N,25W	Barry			x	x			B	x		
Carroll Cr.	C	9.4	Mouth	04,53N,30W	Clay			x	x			B			
Carter Cr.	C	1.0	Mouth	5,39N,2W	Crawford			x	x			B			
Carter Cr.	C	6.0	Mouth	4,27N,1E	Carter			x	x			B			
Carver Br.	P	3.0	Mouth	13,26N,32W	Newton			x	x			A			
Carver Cr.	P	1.6	Mouth	28,32N,3E	Iron			x	x			B			
Carver Cr.	C	4.0	28,32N,3E	16,32N,3E	Iron			x	x			B			
Casmer Br.	C	1.5	Mouth	12,48N,2W	Lincoln			x	x			B			
Cason Br.	C	2.5	Mouth	21,45N,10W	Callaway			x	x						
Castile Cr.	C	40.2	Mouth	24,58N,32W	Buchanan	DeKalb		x	x			B	x	x	
Casto Cr.	C	4.3	Mouth	14,27N,16W	Douglas			x	x			B			
Castor R.	P	45.5	Mouth	31,28N,10E	Stoddard			x	x			B			
Castor R.	C	10.5	31,28N,10E	12,28N,9E	Stoddard	Bollinger		x	x			B			
Castor R.	P	7.5	12,28N,9E	29,29N,9E	Bollinger		x	x	x			A	x		
Castor R.	P	59.0	29,29N,9E	19,34N,8E	Bollinger	Madison		x	x	x		A	x		
Castor R.	C	2.5	19,34N,8E	7,34N,8E	Madison	St. Francois		x	x			B			
Castor R. Div. Chan.	P	12.2	4,29N,11E	12,28N,9E	Cape Girardeau	Bollinger		x	x			A	x	x	

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Castro Valley	C	3.4	Mouth	1,29N,6W	Shannon			x	x			B			
Cat Hollow	C	2.5	Mouth	33,35N,18W	Dallas			x	x			B			
Cathcart Hollow	C	1.8	Mouth	20,31N,09W	Texas			x	x			B			
Cato Slough	C	5.7	Mouth	15,28N,9E	Bollinger		x	x	x			B			
Cave Br.	C	2.7	Mouth	13,36N,27W	Cedar			x	x			B			
Cave Cr.	C	3.2	Mouth	14,34N,18W	Dallas			x	x			B			
Cave Cr.	C	0.5	Mouth	29,48N,15W	Cooper			x	x			B			
Cave Fk.	C	3.4	Mouth	10,24N,1W	Ripley			x	x			B			
Cave Spring Br.	C	1.2	16,28N,29W	21,28N,29W	Jasper			x	x			B			
Cave Spring Cr.	C	1.2	Mouth	5,43N,33W	Cass			x	x			B			
Cave Spring Hollow	C	1.5	Mouth	12,29N,2E	Reynolds			x	x			B			
Cedar Bottom Cr.	P	3.5	Mouth	32,33N,6E	Madison			x	x			B			
Cedar Bottom Cr.	C	3.0	32,33N,6E	10,32N,6E	Madison			x	x			B			
Cedar Br.	P	2.7	Mouth	16,31N,10E	Bollinger			x	x			B			
Cedar Br.	C	1.7	16,31N,10E	8,31N,10E	Bollinger			x	x			B			
Cedar Cr.	P	31.0	Mouth	20,34N,27W	Cedar		x	x	x			A	x		
Cedar Cr.	C	16.2	20,34N,27W	10,32N,28W	Cedar	Dade		x	x			B			
Cedar Cr.	C	2.0	Mouth	15,42N,6W	Gasconade			x	x			B			
Cedar Cr.	P	11.3	Mouth	34,35N,2E	Washington	Iron		x	x			A			
Cedar Cr.	C	2.6	Sur	5,34N,2E	Iron			x	x			B			
Cedar Cr.	C	2.8	2,22N,19W	6,22N,18W	Taney			x	x			B			
Cedar Cr.	P	6.5	Mouth	11,30N,6E	Wayne			x	x			B			
Cedar Cr.	P	2.2	Mouth	28,26N,32W	Newton			x	x			B			
Cedar Cr.	C	4.3	Mouth	12,47N,32W	Jackson			x	x			B			
Cedar Cr.	C	4.9	Mouth	34,40N,08W	Maries			x	x					x	
Cedar Cr.	C	37.4	21,46N,11W	3,49N,11W	Callaway			x	x			B		x	
Cedar Cr.	P	14.0	Mouth	21,46N,11W	Callaway			x	x			B		x	
Cedar Cr.	P	7.5	Mouth	20,44N,8W	Osage			x	x			B		x	
Cedar Cr.	C	4.7	20,44N,8W	3,43N,8W	Osage			x	x			B			
Cedar Cr.	C	3.3	Mouth	26,46N,21W	Pettis			x	x			B			
Cedar Fk.	C	8.8	Mouth	18,43N,3W	Franklin			x	x			B			
Cedar Fk.	P	3.4	Mouth	9,35N,9E	Perry			x	x			B			
Cedar Fk.	C	1.2	9,35N,9E	16,35N,9E	Perry			x	x			B			
Cedar Run	C	1.1	Mouth	21,37N,05E	St. Francois			x	x			B			
Center Cr.	P	26.8	14,28N,34W	34,28N,31W	Jasper		x	x	x	x		A	x		x
Center Cr.	P	21.0	34,28N,31W	23,27N,29W	Jasper	Newton		x	x	x		A	x		x
Center Cr.	P	4.9	23,27N,29W	17,27N,28W	Newton	Lawrence		x	x	x	x	A	x		x
Center Cr.	P	4.5	17,27N,29W	26,27N,28W	Lawrence			x	x			A			
Chaney Br.	C	4.0	Mouth	6,32N,28W	Barton	Dade		x	x			B			
Chapel Cr.	C	2.0	Mouth	Sur 2149,33N,6E	Madison			x	x			B			
Chapman Br.	C	1.9	Mouth	33,64N,32W	Gentry			x	x			B			
Chariton R.	P	111.0	Mouth	State Line	Chariton	Putnam		x	x	x		A		x	
Charleton Hollow	P	0.3	5,23N,33W	4,23N,33W	McDonald			x	x			B			
Charrette Cr.	P	13.0	Mouth	14,45N,2W	Warren			x	x			A			
Charrette Cr.	P	7.5	14,45N,2W	24,46N,2W	Warren			x	x			A			
Charrette Cr.	C	4.8	24,46N,2W	8,46N,1W	Warren			x	x			B			
Chat Cr.	C	2.1	11,26N,26W	7,26N,25W	Lawrence			x	x			B		x	

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Cheese Cr.	C	4.7	Mouth	09,43N,21W	Pettis	Benton		x	x				B		
Cherry Valley Cr.	C	3.2	Mouth	10,37N,3W	Crawford			x	x				B		
Chesapeake Cr.	P	3.2	Mouth	29,28N,25W	Lawrence			x	x		x		B		
Chute of Island No.7	C	1.4	26,23N,16E	36,23N,16E	Mississippi		x	x	x				B		
Cicero Cr.	P	1.0	Mouth	9,38N,1W	Washington			x	x				B		
Cinque Hommes Cr.	P	17.1	Mouth	28,35N,11E	Perry			x	x				B		
Cinque Hommes Cr.	C	5.0	28,35N,11E	36,35N,10E	Perry			x	x				B		
Clabber Cr.	C	3.0	Mouth	14,45N,9W	Callaway			x	x				B		
Clammer Br.	C	1.0	Mouth	8,38N,27W	St. Clair			x	x				B		
Clark Br.	C	8.6	Mouth	29,56N,18W	Chariton			x	x				B		
Clark Cr.	P	5.0	Mouth	12,29N,14W	Wright			x	x				B		
Clark Cr.	C	5.6	12,29N,14W	3,28N,14W	Wright			x	x				B		
Clark Cr.	P	11.1	Mouth	20,29N,4E	Wayne			x	x	x			B		
Clark Cr.	C	1.5	20,29N,4E	29,29N,4E	Wayne			x	x				B		
Clark Fk.	C	8.3	Mouth	15,47N,16W	Cooper			x	x				B		
Clark Fk.	P	1.0	Mouth	15,43N,13W	Cole			x	x				B		
Clark Fk.	C	6.0	15,43N,13W	34,43N,13W	Cole			x	x				B		
Clayton Br.	P	2.0	Mouth	20,34N,1E	Iron			x	x				B		
Clayton Br.	C	1.4	20,34N,1E	18,34N,1E	Iron			x	x				B		
Clayton Hollow	C	1.0	Mouth	3,24N,18W	Taney			x	x				B		
Clear Cr.	C	4.7	Mouth	27,56N,10W	Monroe			x	x				B		
Clear Cr.	C	4.8	Mouth	27,42N,23W	Benton			x	x				B		
Clear Cr.	C	4.0	Mouth	11,44N,30W	Cass			x	x				B		
Clear Cr.	P	28.2	Mouth	10,35N,29W	St. Clair	Vernon		x	x				A		
Clear Cr.	C	22.3	10,35N,29W	16,34N,30W	Vernon			x	x				B		
Clear Cr.	P	15.2	Mouth	4,29N,23W	Greene			x	x				B		
Clear Cr.	C	4.3	Mouth	5,47N,5W	Montgomery			x	x				B		
Clear Cr.	C	1.6	Mouth	16,37N,1W	Washington			x	x				B		
Clear Cr.	C	2.0	Mouth	16,39N,6W	Phelps			x	x				B		
Clear Cr.	C	4.4	Mouth	17,39N,2E	Washington			x	x				B		
Clear Cr.	P	4.2	Mouth	19,36N,2E	Washington			x	x				B		
Clear Cr.	C	2.4	19,36N,2E	13,36N,1E	Washington			x	x				B		
Clear Cr.	C	13.0	Mouth	State Line	Nodaway			x	x				B		
Clear Cr.	P	11.1	Mouth	28,26N,28W	Newton	Lawrence		x	x				B		
Clear Cr.	C	3.5	28,26N,28W	36,26N,28W	Lawrence	Barry		x	x				B		
Clear Cr.	P	5.0	Mouth	26,53N,31W	Clay			x	x				B		
Clear Cr.	C	13.5	6,53N,31W	09,54N,31W	Clay	Clinton		x	x					x	
Clear Cr.	C	6.0	Mouth	25,59N,26W	Daviess			x	x				B		
Clear Cr.	C	3.3	Mouth	10,57N,5W	Marion			x	x				B		
Clear Cr.	C	5.5	Mouth	22,47N,19W	Cooper			x	x				B		
Clear Fk.	C	1.5	Mouth	32,42N,6W	Gasconade			x	x				B		
Clear Fk.	C	7.0	Mouth	36,49N,6W	Montgomery			x	x				B		
Clear Fk.	P	25.8	Mouth	26,45N,25W	Johnson			x	x				B	x	
Clear Fk.	C	10.1	26,45N,25W	18,44N,24W	Johnson			x	x				B		
Clear Spring	P	0.3	Mouth	19,28N,08W	Texas			x	x				B		
Cliffy Br.	C	2.3	Mouth	36,44N,15W	Moniteau			x	x				B		
Clifton Cr.	C	5.5	Mouth	10,45N,11W	Callaway			x	x				B		

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Clifty Cr.	C	11.4	Mouth	16,27N,12W	Douglas			x	x			B			
Clifty Hollow Cr.	C	2.9	Mouth	11,38N,10W	Maries			x	x			B			
Chubb Cr.	P	3.7	Mouth	2,29N,9E	Bollinger		x	x	x			B			
Chubb Cr.	C	2.1	2,29N,9E	33,30N,9E	Bollinger			x	x			B			
Coakley Hollow	C	1.6	Mouth	9,38N,15W	Camden			x	x			B			
Coal Cr.	P	5.8	Mouth	35,42N,26W	Henry			x	x			B			
Coal Cr.	C	2.0	Mouth	1,65N,26W	Harrison			x	x			B			
Coalbank Cr.	C	1.8	Mouth	27,47N,17W	Cooper			x	x			B			
Coates Br.	P	3.0	Mouth	36,32N,24W	Polk			x	x			B			
Coatney Cr.	P	2.0	Mouth	15,36N,19W	Dallas			x	x			B			
Cobb Cr.	P	2.1	Mouth	21,33N,14W	Laclede			x	x			B			
Cobb Cr.	C	2.3	21,33N,14W	32,33N,14W	Laclede			x	x			B			
Coffman Hollow	C	1.0	Mouth	14,37N,1W	Washington			x	x			B			
Coldwater Cr.	C	4.6	34,44N,33W	8,43N,33W	Cass			x	x			B			
Coldwater Cr.	C	6.9	Mouth	13,47N,6E	St. Louis			x	x			B			x
Coldwater Cr.	P	4.3	Mouth	27,35N,8E	Ste. Genevieve			x	x			B			
Coldwater Cr.	C	0.9	27,35N,8E	33,35N,8E	Ste. Genevieve			x	x			B			
Cole Camp Cr.	P	18.1	Mouth	07,42N,21W	Benton			x	x	x		B			
Cole Camp Cr.	C	4.8	07,42N,21W	26,43N,21W	Benton			x	x			B	x		
Cole Cr.	C	1.5	Mouth	4,45N,5W	Gasconade			x	x			B			
Cole Cr.	C	2.0	Mouth	17,51N,14W	Howard			x	x			B			
Cole Cr.	C	5.7	Mouth	Sur 3280,47N,4E	St. Charles			x	x			B			
Collier Cr.	C	1.5	Mouth	10,30N,5E	Wayne			x	x			B			
Collier Cr.	C	2.5	Mouth	18,45N,8W	Callaway			x	x			B			
Compton Br.	C	1.7	Mouth	16,36N,1E	Washington			x	x			B			
Comstock Cr.	P	1.0	Mouth	34,34N,33W	Vernon			x	x			B			
Comstock Cr.	C	7.5	34,34N,33W	8,33N,32W	Barton			x	x			B			
Conner Cr.	C	5.0	Mouth	5,46N,11W	Boone			x	x			B			
Conas Cr.	C	2.0	20,37N,14W	26,37N,14W	Camden			x	x			B			
Conrad Cr.	P	3.2	Mouth	5,33N,9E	Bollinger			x	x			B			
Conrad Cr.	C	1.5	5,33N,9E	1,33N,8E	Bollinger			x	x			B			
Contrary Cr.	P	1.5	Mouth	13,43N,7W	Osage			x	x			B			
Contrary Cr.	C	4.5	13,43N,7W	9,43N,7W	Osage			x	x			B			
Contrary Cr.	C	10.0	Mouth	30,56N,35W	Buchanan			x	x			B			
Cook Hollow	C	2.0	Mouth	35,25N,21W	Taney	Christian		x	x			B			
Coon Cr.	C	3.6	Mouth	24,51N,14W	Boone			x	x			B			
Coon Cr.	C	11.8	Mouth	08,53N,13W	Monroe	Randolph		x	x			B			
Coon Cr.	P	1.9	Mouth	22,30N,14W	Wright			x	x			B			
Coon Cr.	C	1.6	22,30N,14W	17,30N,14W	Wright			x	x			B			
Coon Cr.	C	13.2	Mouth	10,50N,6W	Montgomery			x	x			B	x		
Coon Cr.	C	9.2	Mouth	Hwy. 47	Lincoln			x	x			B			
Coon Cr.	C	5.1	Mouth	24,22N,21W	Taney			x	x			B			
Coon Cr.	C	7.5	Mouth	14,30N,30W	Barton	Jasper		x	x			B			
Coon Cr.	C	12.2	Mouth	5,29N,28W	Dade	Lawrence		x	x			B			
Coon Cr.	C	5.8	Mouth	16,45N,22W	Pettis			x	x			B			
Coon Hollow	C	1.6	Mouth	3,34N,2E	Iron			x	x			B			
Coon Hollow	C	4.4	Mouth	14,28N,07W	Texas			x	x			B			

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Cooney Cr.	C	0.8	Mouth	11,40N,20W	Benton			x	x			B			
Coonville Cr.	C	1.3	Mouth	30,38N,5E	St. Francois			x	x			B			
Cooper Cr.	P	0.9	Mouth	07,22N,21W	Taney			x	x			B			
Cooper Cr.	C	1.1	07,22N,21W	06,22N,21W	Taney			x	x			B			
Coopers Cr.	C	7.3	Mouth	6,39N,26W	Henry	St. Clair		x	x			B			
Coppedge Cr.	C	1.2	Mouth	35,39N,7W	Maries			x	x			B			
Corn Cr.	C	1.1	Mouth	36,36N,09W	Phelps			x	x			B			
Cotter Cr.	C	1.5	Mouth	23,40N,4E	Jefferson			x	x			B	x		
Cotton Wood Cr.	C	3.5	Mouth	3,54N,18W	Chariton			x	x			B			
Cottonwood Cr.	C	2.0	Mouth	28,36N,33W	Vernon			x	x			B			
Cottonwood Cr.	C	3.9	Mouth	7,50N,25W	Lafayette			x	x			B			
Cottonwood Cr.	C	4.3	Mouth	5,56N,27W	Caldwell			x	x			B			
Cottonwood Cr.	C	2.4	Mouth	2,55N,25W	Livingston	Carroll		x	x			B			
Courtois Cr.	P	32.0	Mouth	17,35N,1W	Crawford	Washington		x	x	x		A	x		
Courtois Cr.	C	1.7	17,35N,1W	21,35N,1W	Washington	Iron		x	x	x		B			
Cow Br.	C	4.4	Mouth	29,65N,40W	Atchison			x	x			B			
Cow Cr.	C	2.5	Mouth	26,47N,8W	Callaway			x	x					x	
Cow Cr.	C	1.8	Mouth	25,51N,21W	Saline			x	x			B			
Cowskin Cr.	P	5.0	Mouth	33,27N,16W	Douglas			x	x			B			
Cowskin Cr.	C	3.6	33,27N,16W	16,27N,16W	Douglas			x	x			B			
Cox Br.	C	2.2	Mouth	10,38N,7W	Phelps			x	x			B	x		
Cox Br.	C	2.0	Mouth	17,38N,7W	Phelps			x	x			B	x		
Crabapple Cr.	C	3.8	Mouth	4,55N,27W	Caldwell			x	x			B			
Crabtree Br.	P	1.5	Mouth	18,34N,25W	Cedar			x	x			B			
Crabtree Br.	C	1.5	18,34N,25W	19,34N,25W	Cedar			x	x			B			
Cracked Neck Cr.	P	3.0	Mouth	6,29N,26W	Lawrence			x	x			B			
Crane Cr.	P	8.4	Mouth	09,36N,21W	Hickory			x	x			B			
Crane Cr.	C	3.4	09,36N,21W	12,36N,21W	Hickory			x	x			B			
Crane Cr.	P	5.9	Mouth	8,25N,23W	Stone			x	x			A	x		
Crane Cr.	P	13.2	8,25N,23W	19,26N,24W	Stone			x	x		x	A	x		
Crane Pond Cr.	P	12.7	Mouth	33,32N,4E	Wayne	Iron		x	x			B			
Crane Pond Cr.	C	1.0	Mouth	33,32N,4E	Iron			x	x			B			
Craven Ditch	C	11.6	Mouth	16,24N,6E	Butler		x	x	x					x	
Crawford Cr.	C	5.0	Mouth	32,46N,29W	Cass			x	x			B			
Creve Coeur Cr.	P	2.1	Mouth	Creve Coeur Lake	St. Louis			x	x			B			
Creve Coeur Cr.	C	3.8	Creve Coeur Lk	6,45N,5E	St. Louis			x	x			B			
Crider Cr.	P	4.7	Mouth	30,42N,6W	Gasconade			x	x			B			
Crider Cr.	C	3.4	30,42N,6W	2,41N,7W	Gasconade	Osage		x	x			B			
Crooked Br.	C	1.0	Mouth	22,24N,11W	Ozark			x	x			B			
Crooked Br.	C	3.1	Mouth	31,45N,30W	Cass			x	x			B			
Crooked Cr.	C	31.4	Mouth	1,56N,12W	Monroe	Shelby		x	x			B			
Crooked Cr.	C	4.0	Mouth	15,50N,5W	Montgomery			x	x			B			
Crooked Cr.	P	19.7	Mouth	36,35N,4W	Crawford	Dent		x	x	x		A			
Crooked Cr.	C	1.0	36,35N,4W	6,34N,3W	Dent			x	x			B			
Crooked Cr.	P	3.5	Mouth	33,35N,2W	Crawford			x	x	x		A			
	P		Mouth	10,48N,1E	Lincoln			x	x			B			
Crooked Cr.	C	7.0	10,48N,1E	11,48N,1W	Lincoln			x	x			B			

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Crooked Cr.	C	2.8	Mouth	12,59N,33W	DeKalb			x	x				B		
Crooked Cr.	C	4.0	Mouth	12,60N,34W	Andrew			x	x				B		
Crooked Cr.	C	5.3	Mouth	06,44N,23W	Johnson	Pettis		x	x				B		
Crooked Cr.	C	2.3	Mouth	30,59N,23W	Livingston			x	x				B		
Crooked Cr.	P	44.8	Mouth	17,32N,9E	Cape Girardeau	Bollinger	x	x	x				A	x	
Crooked Cr.	C	1.0	17,32N,9E	8,32N,9E	Bollinger			x	x				B		
Crooked R.	P	58.1	Mouth	3,54N,29W	Ray			x	x				B		
Crooked R.	C	7.5	3,54N,29W	25,55N,30W	Ray	Clinton		x	x				B		
Crossville Br.	C	2.0	Mouth	28,33N,3W	Reynolds			x	x				B		
Crows Cr.	C	1.8	Mouth	3,39N,2W	Crawford			x	x				B		
Crows Fork Cr.	C	12.7	Mouth	35,48N,9W	Callaway			x	x				B		
Cub Cr.	P	6.6	Mouth	13,35N,1W	Washington			x	x				B		
Cub Cr.	C	1.0	13,35N,1W	18,35N,1E	Washington			x	x				B		
Cuivre R.	PI	11.6	Mouth	Sur 1795,48N,2E	St. Charles			x	x				B	x	
Cuivre R.	P	30.0	Sur 1795,48N,2E	14,49N,1W	St. Charles	Lincoln		x	x				A	x	
Current R.	P	124.0	State Line	24,31N,6W	Ripley	Shannon	x	x	x	x			A	x	
Current R.	P	18.8	24,31N,6W	Montauk Spring	Shannon	Dent		x	x		x		A	x	
Cypress Cr.	C	3.2	Mouth	24,23N,3E	Ripley			x	x				B		
Cypress Cr.	C	15.8	Mouth	18,62N,27W	Davies	Harrison		x	x				B		
Cypress Ditch #1	C	9.7	State Line	1,22N,4E	Ripley			x	x				B		
Cypress Ditch Lat.	P	8.0	Mouth	20,25N,9E	Stockard			x	x				B		
Cypress Ditch Lat.	C	6.5	20,25N,9E	29,26N,9E	Stockard			x	x				B		
Dan R.	C	2.5	32,23N,7E	20,23N,7E	Butler			x	x				B		
Dardenne Cr.	PI	7.0	Mouth	Sur 1704,47N,4E	St. Charles			x	x				B	x	
Dardenne Cr.	P	16.5	Sur 1704,47N,4E	22,46N,2E	St. Charles			x	x				B	x	
Dardenne Cr.	C	8.5	22,46N,2E	22,46N,1E	St. Charles			x	x				B		
Dark Cr.	C	9.1	Mouth	34,55N,15W	Randolph			x	x				B		
Darrow Br.	C	1.0	Mouth	1,44N,9W	Osage			x	x				B		
Davis Br.	C	4.0	Mouth	2,28N,18W	Webster			x	x					x	
Davis Cr.	C	8.8	Mouth	30,51N,9W	Audrain			x	x				B		
Davis Cr.	C	2.9	Mouth	6,34N,22W	Polk			x	x				B		
Davis Cr.	P	1.2	Mouth	12,29N,20W	Greene			x	x				B		
Davis Cr.	C	3.0	12,29N,20W	2,29N,20W	Greene			x	x				B		
Davis Cr.	C	4.2	Mouth	13,23N,10W	Howell			x	x				B		
Davis Cr.	P	3.5	Mouth	21,62N,38W	Holt			x	x				B		
Davis Cr.	P	25.8	Mouth	8,48N,26W	Saline	Lafayette		x	x				B		
Davis Cr.	C	12.2	8,48N,26W	7,48N,27W	Lafayette			x	x				B	x	
Davis Cr. Ditch	C	6.7	Mouth	6,61N,38W	Holt			x	x				B		
Davisville Hollow	C	2.2	Mouth	31,36N,2W	Crawford			x	x				B		
Day Hollow	C	1.0	Mouth	36,39N,1W	Washington			x	x				B		
Dead Oak Br.	C	1.0	Mouth	2,55N,26W	Caldwell			x	x				B		
Deane Cr.	P	1.3	Mouth	17,38N,14W	Miller			x	x				A	x	
Deane Cr.	C	2.0	20,38N,14W	29,38N,14W	Camden			x	x				B		
Deberry Cr.	C	0.9	Mouth	26,37N,14W	Camden			x	x				B	x	
Decker Br.	C	2.1	Mouth	35,36N,22W	Hickory			x	x				B		
Deepwater Cr.	C	9.8	Mouth	Montrose Lk Dam	Henry			x	x				B		

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Deepwater Cr.	C	5.6	35,41N,28W	5,40N,28W	Henry	Bates		x	x			B			
Deer Cr.	P	11.7	Mouth	21,39N,20W	Benton			x	x	x		B			
Deer Cr.	C	3.3	21,39N,20W	03,38N,20W	Benton			x	x			B			
Deer Cr.	C	1.3	Mouth	12,41N,26W	Henry			x	x			B			
Deer Cr.	P	5.6	Mouth	4,32N,21W	Polk			x	x			B			
Deer Cr.	P	0.8	Mouth	20,45N,8W	Osage			x	x			B			
Deer Cr.	C	4.4	20,45N,8W	34,45N,8W	Osage			x	x			B			
Deer Cr.	P	1.6	Mouth	1930,45N,6E	St. Louis City	St. Louis		x	x			A	x		
Dent Br.	C	1.0	Mouth	Sur 2374,36N,2E	Washington			x	x			B			
Des Moines R.	P	31.3	Mouth	State Line	Clark			x	x			A	x		
Devils Den Hollow	C	1.2	Mouth	11,33N,4E	Iron			x	x			B			
Dew Pond Hollow	C	2.7	Mouth	15,30N,07W	Texas			x	x			B			
Dickerson Cr.	C	1.3	Mouth	Binder Lake Dam	Cole			x	x			B			
Dicks Cr.	C	7.3	Mouth	33,54N,33W	Platte			x	x			B	x		
Dicks Fk.	C	5.0	Mouth	28,32N,31W	Barton			x	x			B			
Dicky Cr.	C	1.1	Mouth	14,26N,15W	Douglas			x	x			B			
Dillard Cr.	P	1.5	Mouth	22,31N,11E	Cape Girardeau			x	x			B			
Dillard Cr.	C	1.0	22,31N,11E	16,31N,11E	Cape Girardeau			x	x			B			
Dillon Cr.	C	4.8	Mouth	33,59N,35W	Andrew			x	x			B	x		
Dirt House Hollow	C	1.9	Mouth	28,29N,07W	Texas			x	x			B			
Ditch #1	C	9.0	Mouth	20,23N,9E	Dunklin			x	x			B			
Ditch #1	P	7.6	13,27N,8E	19,28N,9E	Stoddard	Bollinger		x	x			B			
Ditch #1	C	2.0	19,28N,9E	16,28N,9E	Bollinger			x	x			B			
Ditch #1	P	2.8	30,16N,10E	17,16N,10E	Dunklin			x	x			B			
Ditch #1	P	17.6	3,24N,13E	15,27N,13E	New Madrid	Scott		x	x			B			
Ditch #1	C	3.3	16,27N,13E	4,27N,13E	Scott			x	x			B			
Ditch #1	P	86.0	State Line	27,29N,12E	Dunklin	Scott	x	x	x			B	x		
Ditch #1	C	4.3	27,29N,12E	12,29N,12E	Scott		x	x	x			B	x		
Ditch #1	P	7.3	Mouth	16,21N,9E	Dunklin			x	x			B			
Ditch #1	C	3.3	16,21N,9E	6,21N,9E	Dunklin			x	x			B			
Ditch #10	P	3.5	32,27N,8E	17,27N,8E	Stoddard	Wayne		x	x			B			
Ditch #10	C	2.5	17,27N,8E	4,27N,8E	Wayne			x	x			B			
Ditch #10	C	2.7	20,23N,15E	5,23N,15E	New Madrid			x	x			B			
Ditch #101	C	3.5	34,28N,9E	19,28N,10E	Bollinger			x	x			B			
Ditch #104	C	12.5	Mouth	13,25N,13E	New Madrid			x	x			B			
Ditch #11	P	6.0	32,27N,8E	13,27N,8E	Stoddard			x	x			B			
Ditch #11	C	3.0	7,24N,8E	1,25N,7E	Butler			x	x			B			
Ditch #110	C	3.1	5,28N,11E	20,29N,11E	Stoddard	Cape Girardeau		x	x			B			
Ditch #16	C	11.2	33,24N,8E	7,25N,8E	Butler			x	x						
Ditch #17	C	7.5	Mouth	31,28N,11E	Stoddard			x	x			B			
Ditch #2	P	3.2	State Line	30,22N,4E	Ripley			x	x			B			
Ditch #2	C	6.0	30,22N,4E	2,22N,4E	Ripley			x	x			B			
Ditch #2	P	4.9	Mouth	35,28N,8E	Stoddard	Wayne		x	x			B			
Ditch #2	C	4.9	23,17N,12E	36,18N,12E	Pemiscot			x	x			B			
Ditch #2	P	17.0	11,20N,10E	24,23N,10E	New Madrid			x	x			B			
Ditch #22	C	7.0	Mouth	2,23N,8E	Butler			x	x			B			
Ditch #23	C	5.8	Mouth	34,24N,8E	Butler			x	x			B			

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Ditch #24	P	12.0	23,26N,12E	6,27N,12E	Stoddard		x	x				B			
Ditch #24	C	3.9	6,27N,12E	22,28N,11E	Stoddard		x	x				B			
Ditch #25	P	1.0	15,28N,11E	9,28N,11E	Stoddard		x	x				B			
Ditch #25	C	2.5	9,28N,11E	5,28N,11E	Stoddard		x	x				B			
Ditch #251	P	44.0	State Line	26,22N,12E	Dunklin	New Madrid	x	x				B	x		
Ditch #258	P	10.0	27,19N,10E	9,20N,11E	Dunklin	Pemiscot	x	x				B	x		
Ditch #258	C	5.0	9,20N,11E	25,21N,11E	New Madrid		x	x				B			
Ditch #259	P	26.3	State Line	31,20N,11E	Dunklin	Pemiscot	x	x				B	x		
Ditch #26	P	3.0	Mouth	33,29N,11E	Stoddard	Cape Girardeau	x	x				B			
Ditch #26	C	1.3	33,29N,11E	28,29N,11E	Cape Girardeau		x	x				B			
Ditch #27	P	4.5	15,28N,11E	22,29N,11E	Stoddard	Cape Girardeau	x	x				B			
Ditch #287	P	4.8	6,27N,11E	15,28N,11E	Stoddard		x	x				B			
Ditch #290	P	9.2	19,20N,11E	12,21N,11E	Dunklin	New Madrid	x	x				B			
Ditch #290	C	5.3	12,21N,11E	21,22N,12E	New Madrid		x	x				B			
Ditch #293	P	2.9	19,20N,11E	12,20N,10E	Pemiscot		x	x				B			
Ditch #3	C	2.4	Mouth	11,27N,8E	Stoddard		x	x				B			
Ditch #3	P	2.0	4,18N,9E	28,19N,9E	Dunklin		x	x				B			
Ditch #3	C	0.5	28,19N,9E	27,19N,9E	Dunklin		x	x				B			
Ditch #3	P	8.1	6,16N,12E	4,17N,12E	Pemiscot		x	x				B			
Ditch #3	P	18.3	12,20N,10E	6,23N,11E	New Madrid	Stoddard	x	x				B			
Ditch #30	P	4.5	Mouth	1,27N,11E	Stoddard		x	x				B			
Ditch #33	P	11.8	Mouth	14,28N,11E	Stoddard		x	x				B			
Ditch #33	C	2.0	14,28N,11E	2,28N,11E	Stoddard		x	x				B			
Ditch #34	C	4.5	Mouth	25,29N,11E	Stoddard	Cape Girardeau	x	x				B			
Ditch #34	C	9.0	Mouth	24,28N,12E	Stoddard		x	x				B			
Ditch #35	C	9.2	Mouth	3,27N,12E	Stoddard		x	x				B			
Ditch #36	P	7.8	Mouth	21,19N,10E	Dunklin		x	x				B			
Ditch #4	C	1.5	22,27N,8E	11,27N,8E	Stoddard		x	x				B			
Ditch #4	C	3.5	4,17N,12E	20,18N,12E	Pemiscot		x	x				B			
Ditch #4	P	8.9	34,26N,13E	22,27N,13E	New Madrid	Scott	x	x				B			
Ditch #4	C	4.0	22,27N,13E	33,28N,13E	Scott		x	x				B			
Ditch #4	C	14.0	Mouth	6,22N,11E	Pemiscot	New Madrid	x	x				B			
Ditch #41	C	5.0	Mouth	28,23N,12E	New Madrid		x	x				B			
Ditch #42	C	18.2	Mouth	29,25N,12E	New Madrid	Stoddard	x	x				B			
Ditch #5	C	1.0	28,27N,8E	21,27N,8E	Stoddard		x	x				B			
Ditch #5	P	2.0	12,16N,11E	6,16N,12E	Pemiscot		x	x				B			
Ditch #6	P	1.0	29,27N,8E	21,27N,8E	Stoddard		x	x				B			
Ditch #6	P	16.0	Mouth	15,18N,12E	Pemiscot		x	x				B			
Ditch #6	C	4.5	15,18N,12E	2,18N,12E	Pemiscot		x	x				B			
Ditch #6	P	7.8	Mouth	16,22N,11E	New Madrid		x	x				B			
Ditch #6	C	23.3	16,22N,11E	26,26N,11E	New Madrid	Stoddard	x	x					x		
Ditch #66	C	2.0	Mouth	33,20N,11E	Pemiscot		x	x				B			
Ditch #66	P	25.0	State Line	1,19N,10E	Pemiscot		x	x				B			
Ditch #7	P	3.0	Mouth	22,16N,11E	Pemiscot		x	x				B			
Ditch #7	C	6.7	Mouth	15,22N,11E	New Madrid		x	x				B			
Ditch #79	P	11.0	4,16N,9E	28,18N,10E	Dunklin		x	x				B			

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Ditch #8	C	19.1	12,21N,11E	1,24N,11E	New Madrid	Stoddard		x	x			B	x		
Ditch #80	P	0.5	4,16N,9E	4,16N,9E	Dunklin			x	x			B			
Ditch #81	P	24.0	State Line	11,19N,10E	Dunklin	Pemiscot		x	x			B			
Ditch #84	P	6.0	11,19N,10E	11,20N,10E	Pemiscot			x	x			B			
Ditch #9	P	5.6	17,20N,11E	22,21N,11E	Pemiscot	New Madrid		x	x			B			
Ditch #9	C	3.0	22,21N,11E	12,21N,11E	New Madrid			x	x			B			
Ditch 101	P	1.7	Mouth	34,28N,9E	Stoddard	Bollinger		x	x			B			
Ditch Cr.	P	1.8	Mouth	12,40N,02E	Jefferson			x	x			A			
Ditch to Black R.	P	9.5	Mouth	3,23N,7E	Butler		x	x	x			B			
Ditch to Black R.	C	10.7	3,23N,7E	9,25N,7E	Butler		x	x	x			B	x		
Ditch to Ditch #1	C	1.2	Mouth	28,23N,9E	Dunklin			x	x			B			
Ditch to Ditch #1	C	4.9	Mouth	34,30N,12E	Scott	Cape Girardeau		x	x			B			
Ditch to Ditch #1	P	7.0	Mouth	33,30N,12E	Scott	Cape Girardeau		x	x			B			
Ditch to Ditch #1	P	3.7	Mouth	16,29N,12E	Scott	Cape Girardeau		x	x			B			
Ditch to Ditch #101	C	1.6	Mouth	13,28N,9E	Bollinger			x	x			B			
Ditch to Ditch #2	P	1.5	Mouth	24,22N,3E	Ripley			x	x			B			
Ditch to Ditch #3	P	2.0	Mouth	30,17N,12E	Pemiscot			x	x			B			
Ditch to Ditch #5	C	2.0	Mouth	24,16N,11E	Pemiscot			x	x			B			
Ditch to Ditch #6	C	2.0	Mouth	29,18N,12E	Pemiscot			x	x			B			
Ditter Cr.	C	1.2	Mouth	03,41N,23W	Benton			x	x			B			
Doe Cr.	C	6.1	Mouth	4,50N,15W	Howard			x	x			B			
Doe Run Cr.	P	6.1	Mouth	27,35N,5E	St. Francois			x	x			B			
Doe Run Cr.	C	3.5	27,35N,5E	20,35N,5E	St. Francois			x	x			B			
Dog Cr.	P	2.9	Mouth	12,40N,14W	Miller			x	x			B			
Dog Cr.	C	7.0	12,40N,14W	4,39N,14W	Miller			x	x			B	x		
Dog Cr.	C	5.7	Mouth	9,58N,28W	Daviess			x	x			B			
Dog Hollow	C	2.0	Mouth	30,33N,14E	Cape Girardeau			x	x			B			
Doolan Chute	P	9.6	Mouth	30,29N,15E	Scott			x	x			B	x		
Dooling Cr.	P	1.5	Mouth	11,45N,8W	Osage			x	x			B			
Dooling Cr.	C	1.0	11,45N,8W	11,45N,8W	Osage			x	x			B			
Doolittle Cr.	C	2.3	Mouth	03,29N,12W	Texas			x	x					x	
Doss Br.	P	2.2	Mouth	17,38N,2W	Crawford			x	x			B			
Doss Br.	C	2.0	17,38N,2W	15,38N,2W	Crawford			x	x			B			
Double Br.	C	5.8	Mouth	19,39N,30W	Bates			x	x			B	x		
Douger Br.	C	3.1/2.8	Mouth	11,26N,26W	Lawrence			x	x			B	x		
Douglas Br.	C	4.3	Mouth	13,36N,32W	Vernon			x	x			B			
Dousinbury Cr.	P	3.9	Mouth	17,33N,18W	Dallas			x	x			B			
Dousinbury Cr.	C	2.0	17,33N,18W	15,33N,18W	Dallas			x	x			B			
Dove Cr.	C	2.0	Mouth	12,29N,13W	Wright			x	x			B			
Doxies Cr.	C	12.4	Mouth	5,51N,16W	Chariton	Howard		x	x			B			
Drunken Cr.	C	1.5	Sur 1200,30N,10E	34,31N,10E	Bollinger			x	x			B			
Drunken Cr.	P	1.0	Mouth	Sur1200,30N,10E	Bollinger			x	x			B			
Dry Auglaize Cr.	P	5.2	24,38N,15W	22,38N,15W	Camden			x	x			A	x		
Dry Auglaize Cr.	C	34.5	22,38N,15W	8,35N,15W	Camden	Laclede		x	x			A	x		
Dry Auglaize Cr.	P	7.6	8,35N,15W	2,34N,16W	Laclede			x	x			B			

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Dry Bone Cr.	C	1.8	Mouth	20,30N,7W	Texas			x	x				B		
Dry Br.	P	3.6	Mouth	6,28N,23W	Greene			x	x				B		
Dry Br.	C	1.7	6,28N,23W	7,28N,23W	Greene			x	x				B		
Dry Br.	C	2.6	Mouth	Sur 1710,51N,1W	Lincoln			x	x				B		
Dry Br.	C	5.1	Mouth	3,49N,2W	Lincoln			x	x				B		
Dry Br.	C	5.3	Mouth	4,39N,1E	Washington			x	x				B		
Dry Cr.	P	1.3	Mouth	27,39N,9W	Maries			x	x				B		
Dry Cr.	C	1.5	27,39N,9W	29,39N,9W	Maries			x	x				B		
Dry Cr.	P	5.0	Mouth	14,37N,3W	Crawford			x	x		x		A		
Dry Cr.	C	8.3	14,37N,3W	16,36N,3W	Crawford			x	x				B		
Dry Cr.	C	3.5	Mouth	24,36N,3E	Washington			x	x					x	
Dry Cr.	C	1.0	Mouth	27,36N,4E	St. Francois			x	x				B		
Dry Cr.	C	5.0	Mouth	12,24N,25W	Stone	Barry		x	x				B		
Dry Cr.	C	15.0	Mouth	8,25N,9W	Douglas	Howell		x	x				B		
Dry Cr.	C	1.5	Mouth	1,24N,13W	Ozark			x	x				B		
Dry Cr.	P	1.0	Mouth	9,28N,3E	Wayne			x	x				B		
Dry Cr.	C	2.7	9,28N,3E	32,29N,3E	Wayne			x	x				B		
Dry Cr.	C	4.5	Mouth	27,32N,6E	Madison			x	x				B		
Dry Cr.	P	9.3	Mouth	25,40N,03E	Jefferson			x	x				B		
Dry Cr.	C	2.8	Mouth	11,48N,21W	Saline			x	x					x	
Dry Cr.	P	8.8	Mouth	32,30N,10E	Bollinger			x	x				B		
Dry Cr.	C	4.5	32,30N,10E	24,30N,9E	Bollinger			x	x				B		
Dry Fk.	P	7.7	Mouth	8,34N,23W	Polk			x	x				B		
Dry Fk.	C	1.0	8,34N,23W	8,34N,23W	Polk			x	x				B		
Dry Fk.	P	4.0	Mouth	35,47N,6W	Montgomery			x	x				B		
Dry Fk.	C	3.3	35,47N,6W	10,46N,6W	Montgomery			x	x				B		
Dry Fk.	C	2.3	Mouth	22,35N,9E	Perry			x	x				B		
Dry Fk.	C	3.2	Mouth	18,35N,12E	Perry			x	x				B		
Dry Fk.	P	23.3	Mouth	22,37N,7W	Phelps		x	x	x				B		
Dry Fk.	C	27.0	22,37N,7W	20,35N,6W	Phelps	Dent		x	x				B		
Dry Fk.	P	12.7	Mouth	35,41N,6W	Gasconade			x	x				B		
Dry Fk.	C	3.4	Mouth	29,29N,27W	Lawrence			x	x				B		
Dry Fk.	C	10.2	Mouth	8,29N,30W	Jasper			x	x				A		
Dry Fk.	C	2.4	Mouth	11,46N,11W	Callaway			x	x				B		
Dry Fk.	C	2.0	Mouth	20,50N,17W	Howard			x	x				B		
Dry Fk.	C	3.6	Mouth	28,45N,16W	Moniteau			x	x					x	
Dry Fk. Cr.	P	4.0	20,35N,6W	29,35N,6W	Dent			x	x				B		
Dry Fk. Cr.	C	11.1	29,35N,6W	25,34N,7W	Dent			x	x				B		
Dry Fk. Cr.	C	13.3	35,41N,6W	6,40N,7W	Gasconade	Maries		x	x				B	x	
Dry Hollow	C	5.1	Mouth	31,22N,27W	Barry			x	x				B		
Dry Hollow	C	2.5	Mouth	34,24N,16W	Ozark			x	x				B		
Dry Hollow	C	0.5	Mouth	22,28N,28W	Lawrence			x	x					x	
Dry Valley Br.	P	1.6	Mouth	26,27N,29W	Newton			x	x				B		
Dry Valley Br.	C	1.3	26,27N,29W	25,27N,29W	Newton	Lawrence		x	x					x	
Dry Valley Cr.	C	2.3	Mouth	1,34N,5W	Dent			x	x				B		
Dry Wood Cr.	P	29.9	Mouth	4,32N,33W	Vernon	Barton		x	x				B		
Dubois Cr.	P	3.0	Mouth	Sur 404,44N,1E	Franklin			x	x				B		

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Dubois Cr.	C	4.8	Sur 404,44N,1E	11,43N,1W	Franklin			x	x			B			
Duck Cr.	C	3.4	Mouth	32,43N,23W	Henry	Benton		x	x			B			
Duck Cr.	C	5.3	Mouth	21,27N,9E	Stoddard			x	x			B	x		
Duck Cr.	C	6.9	Mouth	16,58N,14W	Macon			x	x			B			
Dudley Main Ditch	P	6.4	Mouth	34,25N,9E	Stoddard			x	x			B			
Dudley Main Ditch	C	0.8	34,25N,9E	27,25N,9E	Stoddard			x	x						
Dulin Cr.	P	1.4	Mouth	09,42N,04E	Jefferson			x	x			B			
Duncan Cr.	C	2.6	Mouth	8,37N,33W	Vernon			x	x			B			
Duncan Cr.	C	3.2	Mouth	22,38N,10W	Phelps			x	x			B			
Dunlap Cr.	C	0.5	Mouth	13,47N,9W	Callaway			x	x			B			
Dunn Spring Cr.	C	2.3	Mouth	34,44N,1E	Franklin			x	x			B			
Duran Cr.	C	8.1	Mouth	02,41N,22W	Benton			x	x			B			
Durington Cr.	C	4.6	Mouth	06,34N,19W	Dallas			x	x			B			
Duskin Cr.	C	2.0	Mouth	13,32N,13E	Cape Girardeau			x	x			B			
Dutch Cr.	P	1.6	Mouth	27,42N,03E	Jefferson			x	x			B			
Dutchtown Ditch	P	10.0	Mouth	25,30N,12E	Cape Girardeau			x	x			B			
Dutro Carter Cr.	P	1.5	Mouth	18,37N,7W	Phelps			x	x			B			
Dutro Carter Cr.	C	0.5	18,37N,7W	18,37N,7W	Phelps			x	x			B			
Duval Cr.	C	7.0	Mouth	13,30N,32W	Jasper			x	x			B			
Dyer Rock Cr.	C	5.1	Mouth	03,49N,24W	Lafayette			x	x			B			
E. Bear Cr.	C	1.2	Mouth	33,46N,25W	Johnson			x	x			B			
E. Br. Crawford Cr.	C	4.0	32,46N,29W	20,46N,29W	Cass			x	x			B			
E. Br. Elkhorn Cr.	C	4.7	Mouth	19,63N,36W	Nodaway			x	x			B			
E. Br. S. Grand R.	C	14.0	Mouth	1,44N,32W	Cass			x	x			B	x		
E. Br. Squaw Cr.	C	4.2	Mouth	5,62N,38W	Holt			x	x			B			
E. Brush Cr.	C	9.0	Mouth	16,45N,15W	Moniteau			x	x			B			
E. Chan. Whitewater R.	C	4.8	Mouth	16,28N,12E	Scott			x	x			B			
E. Cow Cr.	C	2.2	Mouth	19,51N,20W	Saline			x	x			B			
E. Ditch #1	P	22.0	Mouth	11,22N,10E	Dunklin	New Madrid		x	x			B	x		
E. Ditch #1	C	3.0	11,22N,10E	27,23N,10E	New Madrid			x	x			B			
E. Fk. Bee Br.	C	0.9	Mouth	16,37N,30W	Vernon			x	x			B			
E. Fk. Big Cr.	P	18.4	9,63N,28W	5,64N,27W	Harrison			x	x			B		x	
E. Fk. Big Cr.	C	21.1	5,64N,27W	State Line	Harrison			x	x			B	x	x	
E. Fk. Big Cr.	C	3.2	21,31N,7E	9,31N,7E	Madison			x	x			B			
E. Fk. Big Cr.	P	1.4	29,31N,7E	21,31N,7E	Madison			x	x			A			
E. Fk. Big Muddy Cr.	C	2.0	3,65N,29W	35,66N,29W	Harrison			x	x			B			
E. Fk. Black R.	P	17.1	Mouth	29,34N,3E	Reynolds	Iron		x	x			A		x	
E. Fk. Black R.	C	0.7	29,34N,3E	21,34N,3E	Iron			x	x			B			
E. Fk. Bull Cr.	C	2.4	Mouth	23,26N,20W	Christian			x	x			B			
E. Fk. Chariton R.	C	17.8	Mouth	11,60N,15W	Macon			x	x			B		x	
E. Fk. Crooked R.	P	19.9	Mouth	29,54N,27W	Ray			x	x			B			
E. Fk. Crooked R.	C	6.4	29,54N,27W	5,54N,27W	Ray			x	x			B			
E. Fk. Drywood Cr.	C	13.5	Mouth	8,32N,32W	Barton			x	x			B			
E. Fk. Fishing R.	C	12.9	Mouth	20,53N,29W	Clay	Ray		x	x			B			
E. Fk. Fourche Cr.	P	3.0	Mouth	3,22N,1E	Ripley			x	x			B			
E. Fk. Fourche Cr.	C	2.4	3,22N,1E	35,23N,1E	Ripley			x	x			B			
E. Fk. Grand R.	P	28.7	Mouth	29,66N,30W	Gentry	Worth		x	x	x		A	x	x	

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E. Fk. Grand R.	C	6.5	29,66N,30W	10,66N,30W	Worth			x	x			B			
E. Fk. Huzzah Cr.	P	5.5	1,34N,3W	20,34N,2W	Dent			x	x			B			
E. Fk. Huzzah Cr.	C	2.0	20,34N,2W	29,34N,2W	Dent			x	x			B			
E. Fk. L. Blue R.	P	1.0	Mouth	27,49N,31W	Jackson			x	x			B			
E. Fk. L. Blue R.	C	3.7	27,49N,31W	Blue Springs Lake	Jackson			x	x			B			
E. Fk. L. Gravois Cr.	C	3.3	Mouth	3,40N,15W	Miller			x	x			B			
E. Fk. L. Tarkio Cr.	C	17.8	Mouth	21,65N,38W	Holt	Atchison	x	x	x			B			
E. Fk. Little Chariton R.	P	74.0	Mouth	7,57N,14W	Chariton	Macon	x	x	x			B		x	
E. Fk. Locust Cr.	P	16.7	Mouth	2,62N,20W	Sullivan			x	x			B			
E. Fk. Locust Cr.	C	15.7	2,62N,20W	12,64N,20W	Sullivan			x	x			A		x	
E. Fk. Lost Cr.	P	8.0	Mouth	17,28N,7E	Wayne			x	x			B			
E. Fk. Lost Cr.	C	10.0	Mouth	11,60N,31W	DeKalb			x	x			B			
E. Fk. Niangua R.	C	6.3	33,32N,18W	25,31N,18W	Webster			x	x			A			
E. Fk. Postoak Cr.	C	12.2	Mouth	9,44N,26W	Johnson			x	x			B		x	
E. Fk. Rock Cr.	C	4.0	Mouth	31,23N,25W	Barry			x	x			B			
E. Fk. Roubidoux Cr.	C	4.9	Mouth	24,31N,11W	Texas			x	x			B			
E. Fk. Salt Pond Cr.	C	1.6	Mouth	19,49N,22W	Saline			x	x			B			
E. Fk. Shoal Cr.	C	2.9	Mouth	4,51N,32W	Clay			x	x			B			
E. Fk. Sni-a-bar Cr.	C	8.9	32,49N,28W	29,48N,28W	Lafayette			x	x			B			
E. Fk. Sni-a-bar Cr.	P	9.6	Mouth	32,49N,28W	Lafayette			x	x			B			
E. Fk. Sulphur Cr.	C	2.5	Mouth	30,50N,17W	Howard			x	x			B			
E. Fk. Tebo Cr.	C	14.5	31,43N,24W	35,44N,24W	Henry			x	x			B			
E. Fk. Walnut Cr.	C	1.8	Mouth	28,55N,14W	Randolph			x	x			B			
E. Honey Cr.	C	13.6	29,63N,23W	2,64N,23W	Grundy	Mercer	x	x						x	
E. Prong Crooked Cr.	C	3.8	Mouth	17,35N,3W	Dent	Crawford	x	x				B			
E. Yellow Cr.	P	35.0	20,56N,19W	7,60N,18W	Chariton	Linn	x	x				B		x	
Earle Br.	C	0.7	Mouth	Hwy. F	Phelps			x	x			B			
East Cr.	C	9.4	2,44N,33W	31,46N,32W	Cass			x	x			B		x	
East Prong	C	1.0	Mouth	12,31N,7E	Madison			x	x			B			
East Prong Indian Cr.	C	2.5	6,25N,7E	30,26N,7E	Butler			x	x			B			
East Whetstone Cr.	C	5.5	21,29N,13W	6,28N,12W	Wright			x	x			B			
Eaton Br.	C	1.2	Mouth	4,36N,4E	St. Francois			x	x					x	
Ebo Cr.	P	1.6	Mouth	13,38N,1E	Washington			x	x			B			
Ebo Cr.	C	1.1	13,38N,1E	14,38N,1E	Washington			x	x			B			
Eddington Br.	P	1.4	Mouth	5,29N,25W	Lawrence			x	x			B			
Eddington Br.	P	2.0	Mouth	1,29N,26W	Lawrence			x	x			B			
Edmondson Cr.	C	1.9	Mouth	4,52N,20W	Saline			x	x			B			
Eight Mile Cr.	C	16.8	Mouth	36,44N,31W	Cass			x	x			B			
Elbow Cr.	P	2.6	Mouth	27,22N,18W	Taney			x	x			B			
Eleven Point R.	P	22.7	State Line	18,24N,2W	Oregon		x	x	x	x		A		x	
Eleven Point R.	P	11.4	18,24N,2W	36,25N,4W	Oregon			x	x		x	A		x	
Eleven Point R.	P	22.3	36,25N,4W	23,25N,6W	Oregon			x	x	x		A		x	
Eleven Point R.	C	36.3	23,25N,6W	32,27N,9W	Oregon	Howell	x	x	x			B			
Elk Br.	C	2.8	Mouth	08,45N,22W	Pettis			x	x			B			
Elk Chute Ditch	P	13.1	Mouth	27,18N,10E	Dunklin			x	x			B			
Elk Cr.	P	5.0	Mouth	33,32N,14W	Wright			x	x			B			
Elk Cr.	C	1.5	33,32N,14W	5,31N,14W	Wright			x	x			B			

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Elk Cr.	P	2.4	Mouth	24,29N,10W	Texas			x	x			B			
Elk Cr.	C	2.3	24,29N,10W	30,29N,9W	Texas			x	x			B			
Elk Cr.	C	1.5	Mouth	29,47N,23W	Pettis			x	x			B			
Elk Cr.	C	5.7	14,61N,19W	6,55N,20W	Chariton			x	x			B			
Elk Cr.	C	11.5	Silver Lake	25,57N,20W	Chariton	Linn		x	x			B			
Elk Fk.	C	10.5	Mouth	35,42N,30W	Bates			x	x			B			
Elk Fk.	P	7.0	Mouth	04,44N,23W	Pettis			x	x			B			
Elk Fk. Salt R.	P	7.7	Mouth	26,54N,10W	Monroe			x	x			B	x		
Elk Fk. Salt R.	C	38.6	26,54N,10W	16,54N,13W	Monroe	Randolph		x	x			B	x		
Elk R.	P	23.2	State Line	34,22N,32W	McDonald		x	x	x	x		A	x		
Elkhorn Br.	C	1.5	Mouth	6,21N,8W	Howell			x	x			B			
Elkhorn Cr.	C	21.4	Mouth	3,48N,5W	Montgomery			x	x			B			
Elkhorn Cr.	C	2.3	Mouth	3,26N,19W	Christian			x	x			B			
Elkhorn Cr.	C	11.8	Mouth	13,63N,37W	Nodaway			x	x			B	x		
Elkhorn Cr.	P	5.8	Mouth	26,23N,31W	McDonald		x	x	x			B			
Elm Br.	C	3.0	Mouth	7,43N,23W	Henry			x	x			B	x		
Elm Br.	C	3.0	Mouth	27,53N,8W	Monroe			x	x			B			
Elm Br.	C	4.5	Mouth	3,65N,21W	Putnam			x	x			B			
Elm Cr.	C	9.6	Mouth	20,66N,15W	Schuyler			x	x			B			
Elm Grove Br.	C	4.2	Mouth	27,61N,33W	DeKalb	Gentry		x	x			B			
Elm Spring Br.	C	1.0	6,24N,31W	7,24N,31W	Newton			x	x					x	
Ely Cr.	C	4.3	Mouth	1,55N,7W	Ralls			x	x			B			
Emery Hollow	C	3.9	Mouth	28,31N,10W	Texas			x	x					x	
Emory Cr.	C	2.0	Mouth	31,24N,21W	Taney			x	x					x	
English Cr.	C	2.8	State Line	33,22N,6W	Oregon			x	x			B			
Establishment Cr.	P	17.7	Mouth	23,37N,7E	Ste. Genevieve			x	x			B			
Establishment Cr.	C	2.5	23,37N,7E	33,37N,7E	Ste. Genevieve			x	x			B			
Fabius R.	P1	3.5	Mouth	24,59N,6W	Marion		x	x	x			B	x		
Factory Cr.	P	1.7	Mouth	2,46N,14W	Moniteau			x	x			B			
Factory Cr.	C	4.2	2,46N,14W	32,47N,14W	Moniteau			x	x			B	x		
Fall Cr.	P	1.0	Mouth	11,22N,22W	Taney			x	x			B			
Fall Cr.	C	3.9	11,22N,22W	28,23N,22W	Taney	Stone		x	x			B			
Fassnight Cr.	P	2.8	Mouth	25,29N,22W	Greene			x	x			B			
Fassnight Cr.	C	1.2	25,29N,22W	30,29N,21W	Greene			x	x					x	
Feaster Cr.	C	0.6	Mouth	31,41N,21W	Benton			x	x			B			
Fee Fee Cr. (new)	P	1.5	Mouth	Sur 992,46N,5E	St. Louis			x	x			B			
Fee Fee Cr. (old)	P	1.0	Mouth	1 Mi. above Hwy. 70	St. Louis			x	x			B			
Femme Osage Cr.	P	8.2	Mouth	29,45N,2E	St. Charles			x	x			B			
Femme Osage Cr.	C	2.0	29,45N,2E	24,45N,1E	St. Charles			x	x			B			
Fenton Cr.	C	0.6	Mouth	23,43N,1W	Franklin			x	x					x	
Fenton Cr.	P	0.5	Mouth	35,43N,05E	St. Louis			x	x			B			
Fiddle Cr.	C	3.8	Mouth	16,44N,2E	Franklin			x	x			B			
Fidelity Br.	P	2.6	Mouth	9,27N,31W	Jasper			x	x			B			
Fiery Fk.	C	2.0	Mouth	26,39N,19W	Camden			x	x			B			
Finley Cr.	P	51.6	Mouth	19,28N,16W	Stone	Webster		x	x	x		A	x		
Finn Br.	C	3.5	4,35N,8W	1,35N,8W	Phelps	Dent		x	x			B			
Finney Cr.	P	1.2	Mouth	28,49N,21W	Saline			x	x			B	x		

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Finney Cr.	C	2.4	28,49N,21W	20,49N,21W	Saline			x	x			B			
Fire Br.	C	5.4	Mouth	27,54N,28W	Ray			x	x			B			
Fire Prairie Cr.	P	13.0	Mouth	18,50N,30W	Jackson			x	x			B			
First Cr.	P	1.6	Mouth	14,45N,6W	Gasconade			x	x			B			
First Cr.	C	10.7	14,45N,6W	5,44N,5W	Gasconade			x	x			B			
First Cr.	C	4.7	Mouth	9,52N,33W	Clay	Platte		x	x			B			
Fish Br.	C	1.9	Mouth	28,52N,9W	Audrain			x	x			B			
Fish Cr.	C	12.4	Mouth	21,51N,19W	Saline			x	x			B			
Fish Lake Ditch	C	6.5	3,24N,16E	28,25N,17E	Mississippi			x	x			B			
Fish Trap Slough	C	8.2	State Line	33,23N,8E	Butler			x	x			B			
Fishing R.	P	26.4	Mouth	3,52N,31W	Ray	Clay	x	x	x			B			
Fishing R.	C	8.5	3,52N,31W	24,52N,32W	Clay			x	x			B			
Fishpot Cr.	P	3.5	Mouth	13,44N,04E	St. Louis			x	x			B			
Fishwater Cr.	P	4.8	Mouth	33,35N,4W	Dent			x	x			B			
Fivemile Cr.	P	5.0	State Line	21,26N,33W	Newton		x	x	x			B			
Flagstaff Cr.	C	4.7	Mouth	3,47N,25W	Johnson			x	x			B			
Flat Cr.	C	13.5	Mouth	2,54N,13W	Monroe	Randolph		x	x			B			
Flat Cr.	P	42.3	28,24N,24W	9,23N,27W	Stone	Barry		x	x	x		A	x		
Flat Cr.	P	2.5	9,23N,27W	21,23N,27W	Barry		x	x	x		x	A	x		
Flat Cr.	P	8.3	21,23N,27W	13,22N,28W	Barry			x	x	x		A	x		
Flat Cr.	C	6.0	Mouth	20,24N,3E	Ripley			x	x			B			
Flat Cr.	C	1.2	Mouth	27,43N,1W	Franklin			x	x			B	x		
Flat Cr.	P	2.7	Mouth	1,43N,03E	St. Louis			x	x			B			
Flat Cr.	P	23.7	Mouth	13,45N,21W	Morgan	Pettis		x	x			B	x		
Flat Cr.	C	22.0	13,45N,21W	02,43N,23W	Pettis			x	x			B	x		
Flat Cr.	C	6.4	Mouth	8,49N,19W	Saline	Cooper		x	x			B			
Flat River Cr.	C	10.0	Mouth	21,36N,4E	St. Francois			x	x			B			
Flat Rock Cr.	C	0.5	Mouth	05,40N,20W	Benton			x	x			B			
Flatrock Cr.	P	2.0	Mouth	1,33N,12E	Cape Girardeau			x	x			B			
Flatrock Cr.	C	1.5	1,33N,12E	12,33N,12E	Cape Girardeau			x	x			B			
Fleck Cr.	C	4.3	Mouth	29,32N,33W	Barton			x	x			B			
Fletcher Cr.	C	4.0	Mouth	State Line	Worth			x	x			B			
Flinger Br.	C	1.7	Mouth	17,28N,08W	Texas			x	x					x	
Flint Bottom Cr.	C	3.0	Mouth	21,37N,8E	St. Genevieve			x	x			B			
Flint Hill Br.	P	3.3	Mouth	9,30N,22W	Greene			x	x			B			
Flora Cr.	P	6.0	Mouth	35,32N,14E	Cape Girardeau			x	x			B			
Florida Cr.	C	8.4	Mouth	24,64N,37W	Nodaway			x	x					x	
Floyd Cr.	C	5.1	Mouth	29,63N,14W	Adair			x	x			B			
Flucom Br.	C	1.7	Mouth	12,39N,5E	Jefferson			x	x					x	
Fly Cr.	P	2.5	Mouth	30,40N,9W	Maries			x	x			B			
Fly Cr.	C	0.5	30,40N,9W	30,40N,9W	Maries			x	x			B			
Fly Cr.	C	5.6	Mouth	02,35N,29W	Vernon			x	x			B			
Fonso Br.	P	1.7	Mouth	6,47N,6W	Montgomery			x	x			B			
Fork Cr.	C	4.8	Mouth	6,44N,4W	Franklin	Gasconade		x	x			B			
Fortune Br.	C	2.7	Mouth	9,23N,26W	Barry			x	x			B			
Foster Cr.	C	2.0	Mouth	4,30N,12E	Cape Girardeau			x	x			B			
Fountain Farm Br.	C	1.8	Mouth	32,38N,03E	Washington			x	x					x	

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Fourche a DuClos Cr.	P	8.2	Mouth	30,38N,7E	Ste. Genevieve			x	x			B			
Fourche a DuClos Cr.	C	3.0	30,38N,7E	3,37N,6E	Ste. Genevieve			x	x			B			
Fourche a Renault Cr.	P	8.8	7,38N,2E	Sunnen Lake Dam	Washington			x	x			B			
Fourche a Renault Cr.	P	0.5	Sunnen Lake	15,37N,1E	Washington			x	x			B			
Fourche a Renault Cr.	C	2.4	15,37N,1E	23,37N,1E	Washington			x	x			B			
Fourche Cr.	P	14.6	State Line	15,23N,1W	Ripley		x	x	x	x		A	x		
Fourmile Cr.	C	5.5	Mouth	29,34N,18W	Dallas			x	x			B			
Fowler Cr.	C	6.0	Mouth	13,46N,12W	Boone			x	x			B			
Fox Cr.	P	7.2	Mouth	30,44N,03E	St. Louis			x	x			B			
Fox Cr.	C	0.5	Mouth	28,22N,20W	Taney			x	x			B			
Fox Cr.	P	4.0	Mouth	9,25N,13W	Douglas			x	x			B			
Fox Cr.	C	5.0	9,25N,13W	29,26N,13W	Douglas			x	x			B			
Fox Cr.	C	6.1	Mouth	20,63N,26W	Harrison			x	x			B			
Fox R.	PI	12.3	Mouth	6,64N,6W	Clark			x	x			B	x	x	
Fox R.	P	42.0	6,64N,6W	State Line	Clark			x	x			B	x		
Franklin Cr.	C	3.0	Mouth	32,26N,7E	Butler			x	x			B			
Frederick Cr.	C	15.0	8,22N,2W	2,22N,4W	Oregon			x	x			B	x		
Frederick Cr.	P	3.4	Mouth	8,22N,2W	Oregon			x	x			A	x		
Frene Cr.	P	1.8	Mouth	35,46N,5W	Gasconade			x	x			B			
Frene Cr.	C	3.3	35,46N,5W	10,45N,5W	Gasconade			x	x			B			
Froe Hollow	P	2.0	Mouth	34,34N,4E	Iron			x	x			B			
Froggy Br.	C	1.2	Mouth	5,33N,11E	Cape Girardeau			x	x			B			
Funk Br.	C	3.3	Mouth	32,31N,3E	Reynolds	Iron		x	x			B			
Furnace Cr.	P	2.8	Mouth	14,36N,2E	Washington			x	x			B			
Gabriel Cr.	P	5.0	Mouth	7,44N,18W	Morgan			x	x			A	x		
Gabriel Cr.	C	13.6	07,44N,18W	03,42N,19W	Morgan			x	x			B	x		
Galbreath Cr.	C	5.8	18,53N,12W	22,53N,13W	Monroe	Randolph		x	x			B			
Galena Hollow	C	3.6	Mouth	20,23N,26W	Barry			x	x			B			
Galligher Cr.	P	0.2	Mouth	20,41N,04E	Jefferson			x	x			B			
Gallinipper Cr.	C	1.3	Mouth	36,39N,26W	St. Clair			x	x			B			
Gallinipper Cr.	C	3.0	36,39N,26W	27,39N,26W	St. Clair			x	x			B			
Galloway Cr.	P	3.2	Mouth	4,28N,21W	Greene			x	x			B			
Ganaway Cr.	C	2.0	Mouth	25,52N,16W	Howard			x	x			B			
Gans Cr.	C	5.5	1,47N,13W	33,48N,12W	Boone			x	x			A			
Garrison Br.	C	2.0	Mouth	29,25N,19W	Christian			x	x			B			
Garrison Br.	C	0.7	23,27N,21W	23,27N,21W	Christian			x	x			B			
Garrison Fk.	C	6.8	Mouth	13,50N,27W	Lafayette			x	x			B			
Gasconade R.	P	264.0	Mouth	6,29N,14W	Gasconade	Wright		x	x	x		A	x	x	
Gasconade R.	P	11.2	6,29N,14W	26,29N,16W	Wright			x	x			B			
Gasconade R.	C	4.8	26,29N,16W	19,29N,16W	Wright	Webster		x	x			B			
Gees Cr.	C	13.8	Mouth	29,60N,25W	Livingston	Grundy		x	x			B			
Gillum Cr.	C	2.5	Mouth	23,39N,33W	Bates			x	x				x		
Gimlet Cr.	P	1.5	Mouth	26,31N,7E	Madison			x	x			B			
Girard Br.	C	2.5	Mouth	33,41N,1E	Franklin			x	x			B			
Givins Br.	C	4.7	Mouth	11,31N,19W	Webster			x	x			B			
Gizzard Cr.	P	0.9	Mouth	27,30N,7E	Wayne			x	x			B			
Gizzard Cr.	P	2.0	Mouth	6,29N,11E	Cape Girardeau	Bollinger		x	x			B			

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Gizzard Cr.	C	1.6	6,29N,11E	36,30N,10E	Bollinger			x	x			B			
Gladden Cr.	P	2.5	Mouth	13,31N,6W	Shannon			x	x			B			
Gladden Cr.	C	15.2	13,31N,6W	5,32N,5W	Shannon	Dent		x	x			B			
Glade Cr.	C	0.9	Mouth	Sur 2081,30N,4E	Iron			x	x			B			
Glaize Cr.	P	6.1	Mouth	22,42N,5E	Jefferson			x	x			B			
Glaize Cr.	C	2.0	22,42N,5E	21,42N,5E	Jefferson			x	x					x	
Glendale Fk.	C	5.4	Mouth	14,31N,33W	Barton			x	x					x	
Goldsbary Hollow	C	2.7	Mouth	31,23N,16W	Ozark			x	x			B			
Goose Cr.	P	4.0	Mouth	10,28N,25W	Lawrence			x	x		x	B			
Goose Cr.	C	6.5	Mouth	25,38N,6E	Ste. Genevieve	St. Francois		x	x			B			
Goose Cr.	P	4.0	Mouth	17,35N,10E	Perry			x	x			B			
Goose Cr.	C	1.3	17,35N,10E	24,35N,9E	Perry			x	x			B			
Goose Cr.	P	1.0	Mouth	18,39N,1E	Washington			x	x			B			
Goose Cr.	C	2.0	18,39N,1E	21,39N,1E	Washington			x	x			B			
Goose Cr.	C	2.8	Mouth	Sur 837,35N,2E	Washington			x	x					x	
Goose Cr.	C	1.5	Mouth	30,29N,7E	Wayne			x	x			B			
Goose Cr.	C	3.0	Mouth	Sur 183,31N,13E	Cape Girardeau			x	x					x	
Goose Cr.	C	4.0	Mouth	28,26N,5E	Butler			x	x			B		x	
Goose Cr.	P	1.4	Mouth	22,33N,7E	Madison			x	x			B			
Goose Cr.	C	1.6	22,33N,7E	27,33N,7E	Madison			x	x			B			
Goose Cr.	P	2.4	Mouth	32,62N,29W	Daviess			x	x			B			
Goose Cr.	C	4.4	Mouth	14,56N,29W	Caldwell			x	x			B			
Goose Pond Ditch	C	4.3	21,27N,9E	8,26N,9E	Stoddard			x	x			B			
Gooseneck Br.	C	2.5	Mouth	22,37N,20W	Hickory			x	x			B			
Gordon Cr.	P	2.0	Mouth	15,32N,3W	Dent			x	x			B			
Gordon Cr.	C	0.5	15,32N,3W	11,32N,3W	Dent			x	x			B			
Gower Br.	C	2.3	Mouth	09,32N,19W	Dallas			x	x			B			
Gracey Cr.	C	2.0	Mouth	6,42N,16W	Morgan			x	x			B			
Grand Glaize Cr.	C	4.0	Mouth	9,44N,5E	St. Louis			x	x			B			
Grand R.	P	127.5	19,23N,57W	State Line	Livingston	Worth		x	x	x		A	x	x	
Grand R.	P	56.0	Mouth	Shoal Cr.	Chariton	Livingston		x	x	x		A	x	x	
Granddaddy Cr.	C	1.5	Mouth	26,41N,28W	Henry			x	x			B			
Grandglaize Cr.	P	7.6	Mouth	24,38N,15W	Miller	Camden		x	x			A	x		
Granny Cr.	P	1.0	Mouth	6,30N,11E	Bollinger			x	x			B			
Granny Cr.	C	1.2	6,30N,11E	31,31N,11E	Bollinger			x	x			B			
Grantham Cr.	C	3.4	Mouth	2,64N,33W	Gentry			x	x						
Grassy Cr.	C	1.8	Mouth	10,54N,2W	Pike			x	x			B			
Grassy Cr.	C	2.4	Mouth	26,48N,22W	Saline	Pettis		x	x			B			
Grassy Cr.	C	19.8	Mouth	34,61N,8W	Marion	Lewis		x	x			B			
Grassy Cr.	C	5.0	20,30N,8E	14,30N,8E	Bollinger			x	x			B			
Grassy Cr.	P	1.3	Mouth	20,30N,8E	Bollinger			x	x			B			
Grassy Hollow	C	3.9	Mouth	09,28N,07W	Texas			x	x			B			
Graveyard Br.	C	0.9	Mouth	01,42N,09W	Osage			x	x			B			
Gravois Cr.	P	9.3	Mouth	20,42N,18W	Morgan			x	x			A	x		
Gravois Cr.	P	2.3	Mouth	24,44N,6E	St. Louis City	St. Louis		x	x			B			
Gravois Cr.	C	6.0	24,44N,6E	16,44N,6E	St. Louis			x	x			B			
Grays Cr.	P	13.8	Mouth	35,45N,13W	Cole			x	x			B			

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Grays Cr.	C	1.0	35,45N,13W	34,45N,13W	Cole			x	x			B			
Greasy Cr	C	1.5	Mouth	11,29N,3E	Wayne			x	x			B			
Greasy Cr.	P	4.2	Mouth	31,34N,19W	Dallas			x	x	x		B			
Greasy Cr.	C	11.5	31,34N,19W	11,32N,20W	Dallas			x	x	x		B			
Greasy Cr.	C	4.1	Mouth	23,35N,7E	Ste. Genevieve			x	x			B			
Greasy Cr.	C	4.2	Mouth	12,21N,29W	Barry			x	x			B			
Greasy Cr.	C	0.7	14,45N,08W	13,45N,08W	Osage			x	x			B			
Greasy Cr.	P	0.2	Mouth	14,45N,08W	Osage			x	x			B			
Greedy Cr.	C	1.7	20,41N,06W	18,41N,06W	Gasconade			x	x			B	x		
Greedy Cr.	P	0.8	Mouth	20,41N,06W	Gasconade			x	x			B			
Green Spring Br.	C	1.8	Mouth	02,35N,25W	St. Clair	Cedar		x	x			B			
Greenbriar Cr.	C	2.0	Mouth	27,24N,2W	Oregon			x	x			B			
Greens Cr.	C	0.7	Mouth	2,39N,2W	Crawford			x	x			B			
Greenwood Valley	C	1.9	Mouth	28,28N,3E	Wayne			x	x			B			
Greer Br.	C	6.6	Mouth	23,47N,21W	Pettis			x	x			B			
Greer Cr.	C	1.8	Mouth	25,31N,19W	Webster			x	x			B			
Greer Spring Br.	P	1.3	Mouth	36,25N,4W	Oregon			x	x		x	B			
Greggs Cr.	C	2.0	Mouth	Sur 2653,51N,17W	Howard			x	x			B			
Greys Lake	C	5.2	13,66N,42W	10,66N,42W	Atchison			x	x			B			
Grindstone Br.	C	6.0	Mouth	25,51N,13W	Boone			x	x			B			
Grindstone Cr.	P	17.9	Mouth	35,59N,30W	Daviess	DeKalb		x	x			A	x		
Grindstone Cr.	C	19.4	35,59N,30W	24,57N,31W	DeKalb	Clinton		x	x			B			
Grindstone Cr.	C	2.5	Mouth	20,48N,12W	Boone			x	x			A			
Groshong Br.	C	1.5	Mouth	12,48N,1E	Lincoln			x	x			B			
Grounds Cr.	C	1.3	Mouth	4,32N,8E	Madison			x	x			B			
Grove Cr.	P	2.9	Mouth	1,27N,32W	Jasper			x	x			B			
Grove Cr.	C	3.3	Mouth	8,54N,33W	Platte			x	x			B			
Guinns Cr.	C	0.5	Mouth	30,52N,2E	Pike			x	x			B			
Gulley Spring Cr.	C	4.3	Mouth	5,21N,14W	Ozark			x	x			B			
Gum Spring Br.	C	0.5	Hwy. W	31,43N,11W	Cole			x	x			B			
Gum Spring Cr.	P	1.0	Mouth	Hwy. W	Cole			x	x			B			
Gunter Cr.	C	6.7	Mouth	29,24N,27W	Barry			x	x			B			
Hackberry Br.	C	4.5	Mouth	29,35N,32W	Vernon			x	x			B			
Haldiman Br.	C	3.0	Mouth	10,46N,14W	Moniteau			x	x			B			
Half Moon Bayou	C	3.0	23,17N,12E	8,17N,13E	Pemiscot			x	x			B			
Halls Cr.	C	1.5	Mouth	18,46N,8W	Callaway			x	x			B			
Halsey Hollow	C	2.2	Mouth	2,35N,18W	Dallas			x	x			B			
Hamilton Cr.	P	4.5	Mouth	5,29N,10W	Texas			x	x			B			
Hamilton Cr.	C	2.0	5,29N,10W	7,29N,10W	Texas			x	x			B			
Hamilton Cr.	C	2.2	Mouth	29,40N,1W	Washington			x	x			B			
Hamilton Cr.	P	1.8	Mouth	14,44N,03E	St. Louis			x	x			B			
Hancock Hollow	C	1.0	Mouth	2,25N,21W	Christian			x	x			B			
Hankens Br.	C	1.0	Mouth	33,33N,20W	Dallas			x	x			B			
Harding Cr.	C	3.0	Mouth	15,43N,33W	Cass			x	x			B			
Harless Cr.	C	2.3	34,44N,33W	28,44N,33W	Cass			x	x			B			
Harpst Chute	P	5.5	Mouth	30,54N,36W	Platte			x	x			B			
Harris Br.	C	1.0	Mouth	18,39N,1W	Washington			x	x			B			

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Harris Cr.	C	5.6	Mouth	34,23N,3E	Ripley			x	x			B			
Harrison Br.	P	1.0	Mouth	15,24N,33W	Newton			x	x			B			
Harrison Br.	C	1.7	15,24N,33W	23,24N,33W	Newton			x	x			B			
Harrison Br.	C	3.7	Mouth	32,49N,8W	Callaway			x	x			B			
Hart Cr.	C	3.2	Mouth	6,45N,12W	Boone			x	x			B			
Harviell Ditch (#3)	C	16.2	State Line	12,23N,5E	Ripley	Butler	x	x	x			B			
Haverstick Cr.	C	1.5	Mouth	29,40N,5E	Jefferson			x	x				x		
Haw Cr.	C	1.0	Mouth	33,40N,13W	Miller			x	x			B			
Haw Cr.	P	17.5	Mouth	6,42N,19W	Morgan			x	x			A		x	
Haw Cr.	C	1.5	6,42N,19W	12,42N,20W	Morgan	Benton		x	x			B			
Hawker Br.	C	2.5	16,33N,26W	18,33N,26W	Cedar			x	x			B			
Hawker Cr.	P	8.6	Mouth	16,29N,9E	Bollinger			x	x			B			
Hawker Cr.	C	1.5	16,29N,9E	8,29N,9E	Bollinger			x	x			B			
Hawn Cr.	C	0.9	Mouth	30,32N,9E	Bollinger			x	x			B			
Hayden Cr.	C	2.7	Mouth	7,36N,4E	St. Francois			x	x			B			
Hays Cr.	C	2.0	Mouth	29,54N,5W	Ralls			x	x			B			
Hayzett Br.	P	2.4	Mouth	25,62N,37W	Nodaway			x	x			B			
Hazel Cr.	P	9.0	Mouth	20,36N,1E	Washington			x	x			B			
Hazel Cr.	C	2.2	20,36N,1E	15,36N,1E	Washington			x	x			B			
Hazel Cr.	C	5.6	Mouth	31,64N,15W	Adair			x	x			B			
Hazel Run	C	4.3	Mouth	35,38N,5E	St. Francois			x	x			B			
Hazleton Spring	P	0.1	Mouth	34,33N,10W	Texas			x	x			B			
Heads Cr.	P	2.7	Mouth	3,42N,4E	Jefferson			x	x			B			
Heads Cr.	C	2.4	3,42N,4E	14,42N,4E	Jefferson			x	x				x		
Headwater Div. Chan.	P	20.3	Mouth	4,29N,11E	Cape Girardeau			x	x			A		x	x
Heat String Cr.	C	1.3	Mouth	36,49N,8W	Callaway			x	x			B			
Heaths Cr.	P	21.0	Mouth	27,48N,21W	Cooper	Pettis		x	x	x		B			
Heaths Cr.	C	11.5	27,48N,22W	17,47N,22W	Pettis			x	x	x		B			
Henderson Cr.	P	0.4	Mouth	32,33N,8E	Madison			x	x			B			
Henderson Cr.	C	1.7	32,33N,8E	30,33N,7E	Madison			x	x			B			
Henderson Hollow	C	0.9	Mouth	16,30N,4E	Iron			x	x			B			
Henpeck Hollow	C	2.2	Mouth	22,38N,2W	Crawford			x	x			B			
Henry Cr.	C	3.7	23,44N,22W	36,44N,22W	Pettis			x	x			B			
Henry Cr.	P	1.7	Mouth	23,44N,22W	Pettis			x	x			B			
Hess Cr.	C	3.1	Mouth	13,47N,22W	Pettis			x	x			B			
Hicklin Cr.	C	5.3	Mouth	12,34N,29W	Cedar			x	x			B			
Hickory Br.	C	6.8	Mouth	7,55N,20W	Chariton			x	x			B			
Hickory Cr.	C	1.0	Mouth	1,59N,38W	Holt			x	x			B			
Hickory Cr.	C	4.2	Mouth	20,37N,7E	Ste. Genevieve			x	x			B			
Hickory Cr.	C	6.6	Mouth	2,51N,6W	Audrain			x	x			B			
Hickory Cr.	C	2.7	Mouth	11,25N,6E	Butler			x	x			B			
Hickory Cr.	C	1.2	Mouth	21,61N,37W	Holt			x	x			B			
Hickory Cr.	P	4.9	Mouth	28,25N,31W	Newton			x	x			A			
Hickory Cr.	C	1.5	Mouth	11,61N,34W	Andrew			x	x			B			
Hickory Cr.	C	2.8	Mouth	11,60N,28W	Daviess			x	x					x	
Hickory Cr.	P	3.0	Mouth	22,61N,31W	Gentry			x	x			B			
Hickory Cr.	C	10.9	Mouth	9,60N,25W	Grundy			x	x			B			

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Hickory Flat Cr.	P	1.0	Mouth	6,27N,7E	Wayne			x	x			B			
Higgins Cr.	C	1.3	Mouth	34,43N,12W	Cole			x	x			B			
High Cr.	C	6.3	20,66N,41W	13,66N,41W	Atchison			x	x			B			
High Cr. Ditch	C	3.7	22,66N,42W	20,66N,41W	Atchison			x	x			B			
Highly Cr.	C	3.9	Mouth	7,62N,37W	Holt			x	x			B			
Hightower Cr.	C	5.1	Mouth	30,37N,30W	Vernon			x	x			B			
Hillers Cr.	P	5.8	Mouth	32,45N,9W	Callaway			x	x			B			
Hillers Cr.	C	12.8	32,45N,9W	34,46N,10W	Callaway			x	x			B			
Hinch Br.	P	1.5	Mouth	33,39N,2W	Crawford			x	x			B			
Hinch Br.	C	1.9	33,39N,2W	4,38N,2W	Crawford			x	x			B			
Hinkson Cr.	P	7.6	Mouth	Hwy. 163	Boone			x	x			B	x		
Hinkson Cr.	C	18.8	Hwy. 163	36,50N,12W	Boone			x	x			A	x		
Hippo Br.	C	2.3	Mouth	7,54N,5W	Ralls			x	x			B			
Hocum Hollow	C	0.5	Mouth	Sur 1856,40N,6E	Jefferson			x	x			B			
Hodge Cr.	C	2.0	28,32N,4W	16,32N,4W	Dent			x	x			B			
Hog Cr.	P	5.1	Mouth	06,29N,9W	Texas			x	x	x		B			
Hog Cr.	C	4.4	06,29N,9W	16,29N,09W	Texas			x	x			B			
Hog Cr.	C	6.5	Mouth	18,62N,16W	Adair			x	x			B			
Hog Cr.	C	1.9	14,31N,10E	3,31N,10E	Bollinger			x	x			A			
Hog Cr.	P	9.4	Mouth	14,31N,10E	Cape Girardeau	Bollinger		x	x			B			
Hogan Fl.	C	5.8	Mouth	17,44N,26W	Johnson			x	x				x		
Hogard Cr.	C	1.3	Mouth	1,22N,14W	Ozark			x	x			B			
Hogles Cr.	P	17.8	Mouth	5,37N,23W	Benton	Hickory		x	x	x		B			
Hogles Cr.	C	6.4	5,37N,23W	34,37N,23W	Hickory			x	x	x		B			
Holland Br.	C	3.0	Mouth	10,54N,34W	Platte			x	x			B			
Holtzclaw Cr.	C	2.0	Mouth	15,53N,32W	Clay			x	x			B			
Homes Cr.	C	5.2	Mouth	Hwy 33	Clay			x	x			B			
Hominy Br.	C	1.0	Mouth	17,48N,12W	Boone			x	x			B	x		
Hominy Cr.	P	13.2	Mouth	15,33N,21W	Polk			x	x			B			
Honey Cr.	C	8.5	Mouth	24,43N,27W	Henry			x	x			B			
Honey Cr.	P	16.5	Mouth	22,27N,25W	Lawrence			x	x			B			
Honey Cr.	C	2.7	22,27N,25W	35,27N,25W	Lawrence			x	x			B			
Honey Cr.	P	2.6	State Line	State Line	McDonald		x	x	x			A			
Honey Cr.	P	12.2	Mouth	1,65N,34W	Nodaway			x	x			B			
Honey Cr.	C	6.7	1,65N,34W	18,66N,33W	Nodaway			x	x			B			
Honey Cr.	PI	7.0	Mouth	33,64N,6W	Clark			x	x			B	x		
Honey Cr.	C	15.0	Hwy 61	Hwy 81	Clark			x	x			B			
Honey Cr.	C	8.3	Mouth	35,59N,28W	Daviess			x	x			B			
Honey Cr.	C	25.1	Mouth	29,63N,23W	Livingston	Grundy		x	x			B			
Honey Cr.	C	2.6	Mouth	13,46N,19W	Cooper			x	x			B			
Honey Cr.	C	7.0	Mouth	14,47N,27W	Johnson			x	x			B			
Honey Cr.	C	4.6	Mouth	29,43N,12W	Cole			x	x			B	x		
Honey Cypress Ditch	P	14.7	Mouth	27,18N,8E	Dunklin			x	x			B			
Honey Run	C	1.7	Mouth	6,38N,15W	Camden			x	x			B			
Hoosier Cr.	C	2.2	Mouth	11,41N,1W	Franklin			x	x			B			
Hoover Cr.	C	7.2	Mouth	1,55N,14W	Macon	Randolph		x	x			B			
Hope Cr.	C	1.7	Mouth	35,44N,7W	Osage			x	x			B			

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Hopewell Cr.	C	1.0	Mouth	3,36N,3E	Washington			x	x			B			
Horrell Cr.	P	3.0	Mouth	Sur 233,32N,12E	Cape Girardeau			x	x			B			
Horrell Cr.	C	1.7	Sur 233,32N,12E	2,32N,12E	Cape Girardeau			x	x				x		
Horse Cr.	P	27.7	Mouth	35,34N,29W	Cedar	Vernon	x	x	x			B			
Horse Cr.	C	34.6	35,34N,29W	15,31N,28W	Vernon	Dade		x	x			B			
Horse Cr.	C	2.0	Mouth	26,25N,23W	Stone			x	x			B			
Horse Fk.	C	4.4	Mouth	6,55N,31W	Clinton			x	x			B			
Horseshoe Cr.	C	5.8	Mouth	10,48N,29W	Jackson	Lafayette		x	x			B			
Horstman Cr.	C	2.0	Mouth	7,45N,4W	Gasconade			x	x			B			
Houfs Cr.	C	1.6	Mouth	27,48N,9W	Callaway			x	x			B			
Housgen Cr.	C	0.9	Mouth	2,44N,9W	Osage			x	x			B			
Howard Cr.	C	4.3	Mouth	2,46N,15W	Moniteau			x	x			B			
Howell Cr.	C	16.8	Mouth	22,24N,8W	Oregon	Howell		x	x			B			
Hubble Cr.	P	15.0	Mouth	Sur 2250,31N,12E	Cape Girardeau			x	x			B			
Hubble Cr.	C	2.5	Sur 2250,31N,12E	Sur 2192,32N,13E	Cape Girardeau			x	x			B	x		
Hubble Cr.	P	1.5	Mouth	23,29N,5E	Wayne			x	x			B			
Hubble Cr.	C	2.0	23,29N,5E	11,29N,5E	Wayne			x	x			B			
Hudson Cr.	C	4.5	Mouth	11,25N,28W	Barry			x	x			B	x		
Huff Cr.	C	2.0	Mouth	6,69N,37W	Nodaway			x	x			B			
Huffstetter Lateral	P	12.0	6,23N,11E	16,25N,11E	Stoddard			x	x			B			
Hughes Cr.	P	3.0	Mouth	15,33N,12E	Cape Girardeau			x	x			B			
Hughes Cr.	C	2.9	15,33N,12E	20,33N,12E	Cape Girardeau			x	x			B			
Huldy Hollow	C	2.0	Mouth	28,31N,07W	Texas			x	x				x		
Humphrey Cr.	P	1.2	Mouth	1,40N,13W	Miller			x	x			B			
Hungry Cr.	C	2.1	Mouth	5,27N,11W	Douglas			x	x			B			
Hungry Mother Cr.	C	9.5	Mouth	18,51N,14W	Howard			x	x			B			
Hunke Cr.	C	1.8	Mouth	33,43N,06W	Gasconade			x	x			B			
Hunt Br.	P	0.5	22,28N,21W	22,28N,21W	Greene			x	x			B			
Hunt Br.	P	1.0	23,28N,21W	24,28N,21W	Greene			x	x			B			
Hunter Cr.	P	10.2	Mouth	6,26N,15W	Douglas			x	x			A	x		
Hunter Cr.	C	3.2	Mouth	20,30N,6E	Wayne			x	x			B			
Hurricane Br.	C	1.8	Mouth	27,59N,26W	Daviess			x	x			B			
Hurricane Cr.	P	1.9	Mouth	30,24N,12W	Ozark			x	x		x	B			
Hurricane Cr.	P	3.4	Mouth	28,25N,3W	Oregon			x	x			A	x		
Hurricane Cr.	C	6.1	28,25N,3W	4,25N,3W	Oregon			x	x			B			
Hurricane Cr.	C	6.0	Mouth	Hwy. 21	Ripley			x	x			B			
Hurricane Cr.	C	6.2	Mouth	35,55N,22W	Carroll			x	x			B			
Hurricane Cr.	C	3.8	Mouth	23,51N,17W	Howard			x	x			B			
Hurricane Cr.	P	12.4	Mouth	35,32N,9E	Bollinger			x	x			A			
Huzzah Cr.	P	35.8	Mouth	1,34N,3W	Crawford	Dent		x	x	x		A	x		
Huzzah Cr.	P	1.0	Mouth	31,31N,6E	Madison			x	x			B			
Hyatts Cr.	P	2.5	Mouth	2,31N,2E	Reynolds			x	x			B			
Hyde Cr.	P	4.4	Mouth	33,31N,16W	Webster			x	x			B			
Imboden Fk.	P	6.4	Mouth	27,34N,2E	Reynolds	Iron		x	x			B			
Indian Br.	C	3.8	Mouth	22,58N,25W	Livingston			x	x			B			
Indian Camp Cr.	P	3.3	Mouth	6,47N,1E	St. Charles			x	x			B			

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Indian Camp Cr.	C	3.5	2,47N,1W	4,47N,1W	St. Charles	Warren		x	x			B			
Indian Cr.	C	3.3	Mouth	3,55N,8W	Monroe			x	x			B			
Indian Cr.	C	3.0	Mouth	5,41N,16W	Morgan			x	x			A	x		
Indian Cr.	P	7.7	Mouth	21,42N,20W	Benton			x	x	x		B			
Indian Cr.	C	1.2	Mouth	22,42N,8W	Osage			x	x			B			
Indian Cr.	P	3.7	Mouth	30,30N,9W	Texas			x	x			B			
Indian Cr.	C	2.7	30,30N,9W	27,30N,9W	Texas			x	x			B	x		
Indian Cr.	C	20.0	Mouth	17,52N,4W	Pike			x	x			B			
Indian Cr.	C	3.6	Mouth	Sur 2062,38N,8E	Ste. Genevieve			x	x			B			
Indian Cr.	P	8.1	Mouth	10,32N,13E	Cape Girardeau			x	x			B			
Indian Cr.	P	1.0	Mouth	35,35N,3W	Crawford			x	x			B			
Indian Cr.	C	2.0	35,35N,3W	34,35N,3W	Crawford	Dent		x	x			B			
Indian Cr.	P	1.9	Mouth	18,35N,1W	Washington			x	x			B			
Indian Cr.	P	21.4	Mouth	36,39N,01W	Franklin	Washington		x	x		x	B			
Indian Cr.	C	3.4	36,39N,1W	8,38N,1E	Washington			x	x	x		B			
Indian Cr.	C	2.1	Mouth	28,21N,24W	Stone			x	x			B			
Indian Cr.	P	10.0	Mouth	35,27N,11W	Douglas			x	x			B			
Indian Cr.	C	7.5	35,27N,11W	22,27N,10W	Douglas	Howell		x	x			B			
Indian Cr.	P	6.1	Mouth	7,25N,7E	Butler			x	x			B			
Indian Cr.	C	1.6	7,25N,7E	6,25N,7E	Butler			x	x			B			
Indian Cr.	P	5.5	Mouth	5,34N,4E	St. Francois			x	x			A			
Indian Cr.	P	30.8	Mouth	24,24N,31W	McDonald	Newton	x	x	x	x		A	x		
Indian Cr.	C	0.8	Mouth	28,40N,09W	Maries			x	x			B			
Indian Cr.	C	0.2	Mouth	34,44N,08W	Osage			x	x			B			
Indian Cr.	C	2.4	Mouth	28,43N,9W	Osage			x	x			B			
Indian Cr.	C	3.4	Mouth	State Line	Jackson			x	x			A			x
Indian Cr.	C	3.2	Mouth	8,64N,32W	Gentry			x	x			B			
Indian Cr.	C	4.3	Mouth	17,66N,26W	Harrison			x	x			B			
Indian Cr.	C	3.5	Mouth	9,64N,11W	Scotland			x	x			B			
Indian Cr.	P	1.3	Mouth	9,31N,9E	Bollinger			x	x			B			
Indian Cr.	C	0.7	9,31N,9E	4,31N,9E	Bollinger			x	x			B			
Ingalls Cr.	C	6.8	Mouth	01,35N,21W	Hickory			x	x			B			
Iowa Ditch	P	2.8	Mouth	State Line	Atchison			x	x			B			
Ironton Hollow	C	0.9	Mouth	33,34N,4E	Iron			x	x			B			
Irvins Br.	C	3.3	Mouth	10,59N,30W	DeKalb			x	x			B			
Irwin Cr.	C	7.0	Mouth	State Line	Mercer			x	x			B			
Ishmael Br.	C	1.4	Mouth	9,36N,1E	Washington			x	x			B			
Island Cr.	C	8.9	Mouth	6,61N,32W	Gentry			x	x			B			
Isle du Bois Cr.	P	4.5	Mouth	18,39N,7E	Ste. Genevieve			x	x			B			
Isle du Bois Cr.	C	2.3	18,39N,7E	14,39N,6E	Ste. Genevieve			x	x			B			
Isum Cr.	C	0.5	Mouth	30,42N,04E	Jefferson			x	x			B			
Jack Buster Cr.	P	1.5	Mouth	10,41N,14W	Miller			x	x			B			
Jack Cr.	C	0.8	Mouth	19,33N,10E	Bollinger			x	x			B			
Jacks Fk.	P	61.6	Mouth	29,28N,7W	Shannon	Texas		x	x	x		A	x		
Jacktar Hollow	C	5.1	Mouth	22,32N,10W	Texas			x	x			B			
Jacobs Br.	P	1.6	Mouth	2,26N,33W	Newton			x	x			B			
Jakes Cr.	C	11.3	Mouth	24,35N,19W	Dallas			x	x			B			

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Jam Up Cr.	P	3.0	Mouth	16,27N,6W	Shannon			x	x			B			
Jam Up Cr.	C	1.8	16,27N,6W	20,27N,6W	Shannon			x	x			B			
James Bayou	C	3.5	12,23N,16E	26,23N,16E	Mississippi			x	x			B			
James Bayou	C	5.5	12,23N,16E	28,24N,16E	Mississippi			x	x			B			
James Bayou	C	5.8	2,24N,16E	2,25N,16E	Mississippi			x	x			B			
James Br.	C	1.9	23,35N,3W	28,35N,3W	Crawford			x	x			B			
James Br.	P	1.5	Mouth	23,35N,3W	Crawford			x	x			B			
James Cr.	C	2.5	Mouth	17,35N,2E	Washington			x	x			B			
James R.	P	29.4	Mouth	8,26N,22W	Stone			x	x	x	x	A	x		
James R.	P	23.5	8,26N,22W	Lk. Springfd. Dam	Stone	Greene		x	x	x	x	A	x		
James R.	P	39.0	Mouth	24,29N,17W	Greene	Webster		x	x	x		A	x	x	
Jarvis Hollow	C	1.3	Mouth	23,38N,17W	Camden			x	x			B			
Jemerson Cr.	C	3.4	Mouth	29,46N,12W	Boone			x	x			B			
Jenkins Cr.	C	3.0	Mouth	1,24N,26W	Barry			x	x			B			
Jenkins Cr.	C	7.2	Mouth	8,62N,36W	Nodaway			x	x			B			
Jenkins Cr.	P	2.8	Mouth	7,27N,30W	Jasper			x	x			A			
Jenkins Cr.	C	4.8	7,27N,30W	22,27N,30W	Jasper	Newton		x	x			A			
Jerktail Br.	C	0.5	Mouth	11,34N,19W	Dallas			x	x			B			
Jesse Cr.	P	0.7	Mouth	21,29N,8E	Bollinger			x	x			B			
Jesse Cr.	C	2.0	21,29N,8E	9,29N,8E	Bollinger			x	x			B			
Joachim Cr.	P	30.2	Mouth	30,39N,5E	Jefferson			x	x			A	x		x
Joachim Cr.	C	2.5	30,39N,5E	4,38N,5E	Jefferson			x	x			A			
Joes Cr.	C	1.0	Mouth	23,34N,1E	Iron			x	x			B			
Johns Br.	C	1.3	Mouth	32,51N,4W	Pike			x	x			B			
Johns Br.	C	2.9	18,27N,8E	11,27N,7E	Wayne			x	x			B			
Johns Cr.	C	1.0	Mouth	6,35N,9E	Ste. Genevieve			x	x			B			
Johns Cr.	P	1.4	Mouth	22,36N,1W	Washington			x	x			B			
Johns Cr.	C	2.0	22,36N,1W	27,36N,1W	Washington			x	x			B			
Johnson Br.	C	1.0	Mouth	29,30N,9W	Texas			x	x					x	
Johnson Cr.	P	3.0	Mouth	36,29N,26W	Lawrence			x	x		x	A			
Johnson Hollow	C	1.0	Mouth	13,27N,20W	Christian			x	x			B			
Jonca Cr.	C	6.0	36,37N,7E	8,36N,7E	Ste. Genevieve			x	x			B			
Jonca Cr.	P	3.5	Mouth	36,37N,7E	Ste. Genevieve			x	x			B			
Jones Br.	C	3.2	Mouth	32,33N,19W	Dallas			x	x			B			
Jones Cr.	C	3.0	Mouth	8,32N,18W	Dallas			x	x					x	
Jones Cr.	C	8.0	Mouth	27,38N,11W	Pulaski			x	x			A			
Jones Cr.	P	3.5	Mouth	15,41N,03E	Jefferson			x	x			B			
Jones Cr.	P	7.5	Mouth	30,27N,30W	Jasper	Newton		x	x	x		A			
Jones Cr.	C	4.0	Mouth	4,42N,16W	Morgan			x	x			B			
Jordan Br.	C	1.2	Mouth	13,30N,26W	Dade			x	x			B			
Jordan Br.	C	2.2	Mouth	15,37N,22W	Hickory			x	x			B			
Jordan Br.	C	1.8	Mouth	32,35N,9E	Perry			x	x			B			
Jordan Br.	C	7.2	Mouth	32,55N,35W	Platte	Buchanan		x	x			B			
Jordan Cr.	C	1.4	Mouth	10,57N,33W	DeKalb			x	x			B			
Jordan Cr.	P	3.8	Mouth	23,29N,22W	Greene			x	x			B			
Jordan Cr.	C	3.5	Mouth	16,49N,23W	Saline			x	x			B			
Jowler Cr.	C	8.9	Mouth	19,54N,34W	Platte			x	x			B			

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Joyce Cr.	C	4.5	Mouth	16,24N,28W	Barry			x	x			B			
Judge Cr.	C	3.0	Mouth	19,36N,19W	Dallas			x	x			B			
Kaintuck Hollow Cr.	P	2.4	Mouth	15,36N,09W	Phelps			x	x			B			
Keelstone Br.	C	1.0	Mouth	2,48N,1E	Lincoln			x	x			B			
Keeney Cr.	C	4.9	Mouth	13,51N,29W	Ray			x	x					x	
Keifer Cr.	P	1.2	Mouth	15,44N,04E	St. Louis			x	x			A			
Kelley Br.	C	1.3	Mouth	25,50N,13W	Boone			x	x			B			
Kelley Br.	C	5.8	Mouth	15,50N,12W	Boone			x	x					x	
Kelley Br.	C	0.8	Mouth	1,44N,17W	Moniteau			x	x			B			
Kelley Valley	C	2.7	Mouth	23,27N,3E	Wayne			x	x			B			
Kelley Valley	P	1.0	23,27N,3E	26,27N,3E	Wayne	Carter		x	x			B			
Kelly Hollow	C	1.0	Mouth	3,35N,1W	Washington			x	x			B			
Kelly Hollow	P	1.3	Mouth	26,25N,3W	Oregon			x	x			B			
Kenser Cr.	C	2.0	Mouth	22,39N,12W	Miller			x	x			B			
Kessler Cr.	C	2.2	Mouth	21,34N,6E	Madison			x	x			B			
Ketchum Hollow	C	1.9	Mouth	24,22N,27W	Barry			x	x					x	
Kettle Cr.	C	0.8	Mouth	31,58N,26W	Daviess			x	x			B			
Kile Cr.	C	1.3	Mouth	28,51N,13W	Boone			x	x			B			
Kimsey Cr.	P	0.8	Mouth	19,59N,39W	Holt			x	x			B			
Kimsey Cr.	C	2.5	19,59N,38W	30,60N,38W	Holt			x	x					x	
Kimsey Cr.	P	6.7	30,60N,38W	34,61N,38W	Holt			x	x			B			
King Br.	C	1.5	Mouth	23,31N,22W	Greene			x	x			B			
	C		35,31N,22W	2,30N,22W	Greene			x	x			B			
Kings R.	P	1.6	Mouth	State Line	Barry	Stone		x	x			A		x	
Kings Valley	P	3.3	Mouth	33,23N,30W	McDonald			x	x			B			
Kinnemore Ditch	C	13.0	State Line	5,17N,8E	Dunklin			x	x			B			
Kitten Cr.	C	7.2	Mouth	34,37N,29W	St. Clair	Vernon		x	x			B			
Knob Cr.	C	8.4	Mouth	8,41N,32W	Bates			x	x					x	
Knob Cr.	C	2.2	Mouth	30,34N,4E	Iron			x	x			B			
Knobby Cr.	P	1.5	Mouth	34,40N,20W	Benton			x	x			B			
Knobby Cr.	C	1.0	34,40N,20W	3,39N,20W	Benton			x	x			B			
Knox Br.	C	1.0	Mouth	33,38N,1E	Washington			x	x			B			
Koen Cr.	C	1.0	Mouth	5,36N,5E	St. Francois			x	x			B		x	
Kolb Br.	C	1.6	Mouth	3,38N,19W	Camden			x	x			B			
Krone Br.	C	1.1	Mouth	29,40N,10W	Maries			x	x			B			
Kruze Cr.	P	0.9	Mouth	36,41N,03E	Jefferson			x	x			B			
Kyle Cr.	C	8.4	Mouth	34,31N,28W	Barton	Dade		x	x			B			
L. Alder Cr.	C	1.6	Mouth	5,35N,27W	Cedar			x	x			B			
L. Apple Cr.	P	4.6	Mouth	13,33N,11E	Cape Girardeau			x	x			B			
L. Apple Cr.	C	1.2	13,33N,11E	24,33N,11E	Cape Girardeau			x	x			B			
L. Bear Cr.	C	1.2	Mouth	25,40N,15W	Miller			x	x					x	
L. Bear Cr.	C	1.0	Mouth	2,46N,5W	Montgomery			x	x			B			
L. Bear Cr.	C	4.0	Mouth	8,48N,3W	Montgomery			x	x			B			
L. Beaver Cr.	C	3.5	Mouth	8,37N,8W	Phelps			x	x			A			
L. Beaver Cr.	P	10.4	Mouth	36,26N,18W	Taney	Douglas	x	x	x			A		x	
L. Beaver Cr.	C	4.5	36,26N,18W	17,26N,17W	Douglas			x	x			B			
L. Berger Cr.	P	5.0	Mouth	17,45N,4W	Franklin	Gasconade		x	x			B			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	WBC	SCR	DWS	IND
L. Berger Cr.	C	1.2	17,45N,4W	19,45N,4W	Gasconade			x	x			B			
L. Black R.	P	30.2	State Line	31,24N,5E	Ripley	Butler		x	x	x		A	x		
L. Black R.	P	16.0	31,24N,5E	9,24N,3E	Butler	Ripley		x	x	x	x	A	x		
L. Blackwater Cr.	C	6.0	Mouth	36,47N,28W	Johnson			x	x			B			
L. Blair Cr.	C	2.0	Mouth	6,29N,2W	Shannon			x	x			B			
L. Blue R.	C	4.3	20,47N,32W	35,47N,33W	Jackson			x	x			B	x		
L. Blue R.	P	35.1	Mouth	Longview Dam	Jackson			x	x			B	x		
L. Boeuf Cr.	P	0.6	Mouth	2,44N,2W	Franklin			x	x			B			
L. Boeuf Cr.	C	2.8	2,44N,2W	14,44N,2W	Franklin			x	x			B			
L. Bonne Femme Cr.	P	9.0	Mouth	1,47N,13W	Boone			x	x			B			
L. Boone Cr.	C	2.0	Mouth	22,41N,3W	Franklin			x	x			B			
L. Bottom Cr.	C	0.6	Mouth	31,38N,8E	Ste. Genevieve			x	x			B			
L. Bourbeuse Cr.	C	9.6	Mouth	20,39N,7W	Phelps	Maries		x	x			B			
L. Bourbeuse R.	P	13.4	Mouth	26,40N,4W	Franklin	Crawford		x	x			B			
L. Bourbeuse R.	C	3.0	26,40N,4W	3,39N,4W	Crawford			x	x				x		
L. Brazil Cr.	P	2.1	Mouth	18,38N,1W	Washington			x	x			B			
L. Brazil Cr.	C	1.0	18,38N,1W	19,38N,1W	Washington			x	x			B			
L. Brush Cr.	C	7.0	Mouth	10,59N,17W	Macon			x	x			B			
L. Brushy Cr.	C	2.0	Mouth	18,27N,4E	Wayne			x	x			B			
L. Buffalo Cr.	P	5.6	Mouth	11,41N,19W	Morgan			x	x			B			
L. Calumet Cr.	P	1.4	Mouth	2,53N,1W	Pike			x	x			B			
L. Calumet Cr.	C	1.4	2,53N,1W	10,53N,1W	Pike			x	x			B			
L. Calvey Cr.	C	1.0	Mouth	9,42N,2E	Franklin			x	x			B			
L. Cane Cr.	C	3.4	State Line	26,22N,5E	Butler		x	x	x			B			
L. Cedar Cr.	C	2.0	17,48N,11W	05,48N,11W	Boone			x	x			B			
L. Cedar Cr.	C	4.6	Mouth	17,48N,11W	Boone			x	x			B			
L. Chariton R.	P	12.9	Mouth	5,52N,17W	Chariton			x	x			B			
L. Clear Cr.	C	1.3	Mouth	8,34N,30W	Vernon			x	x			B			
L. Clear Cr.	C	5.0	Mouth	1,36N,28W	St. Clair			x	x			B			
L. Coon Cr.	C	4.0	Mouth	6,30N,29W	Barton			x	x			B			
L. Courtois Cr.	P	2.0	Mouth	2,39N,1W	Washington			x	x			B			
L. Courtois Cr.	C	2.0	2,39N,1W	15,39N,1W	Washington			x	x			B			
L. Crane Cr.	C	6.0	Mouth	4,25N,25W	Stone	Barry		x	x			B	x		
L. Crooked Cr.	C	4.7	Mouth	20,57N,11W	Shelby			x	x			B			
L. Crooked Cr.	P	3.2	Mouth	33,31N,9E	Bollinger			x	x			A			
L. Crooked Cr.	C	2.7	33,31N,9E	32,31N,9E	Bollinger			x	x			B			
L. Dardenne Cr.	C	7.4	Mouth	10,46N,1E	St. Charles			x	x			B			
L. Deer Cr.	C	9.0	Mouth	01,38N,21W	Benton			x	x				x		
L. Deer Cr.	C	3.7	Mouth	31,42N,30W	Bates			x	x			B	x		
L. Dry Fk.	P	5.2	Mouth	17,37N,7W	Phelps			x	x			B	x		
L. Dry Fk.	C	4.7	17,37N,7W	5,36N,7W	Phelps			x	x			B			
L. Dry Wood Cr.	P	20.5	Mouth	12,34N,32W	Vernon			x	x			B			
L. Dry Wood Cr.	C	15.6	12,34N,32W	20,33N,31W	Vernon	Barton		x	x			B			
L. E. Fk. Locust Cr.	C	8.8	Mouth	30,62N,19W	Sullivan			x	x			B			
L. Fabius R.	C	36.4	Mouth	17,61N,12W	Knox			x	x			B	x		
L. Finley Cr.	P	5.5	Mouth	5,28N,17W	Webster			x	x			B			
L. Flat Cr.	P	3.9	Mouth	25,25N,27W	Barry			x	x	x		A	x		

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L. Flat Cr.	C	2.7	25,25N,27W	34,25N,27W	Barry			x	x			B	x		
L. Flora Cr.	P	3.4	Mouth	Sur 2201,31N,14E	Cape Girardeau			x	x			B			
L. Fourche a Renault Cr.	P	1.0	Mouth	26,38N,1E	Washington			x	x			B			
L. Fourche a Renault Cr.	C	2.8	26,38N,1E	2,37N,1E	Washington			x	x			B			
L. Fox Cr.	P	0.7	Mouth	31,44N,03E	St. Louis			x	x			B			
L. Fox R.	P	19.8	Mouth	34,67N,10W	Clark	Scotland		x	x			B			
L. Fox R.	C	3.7	34,67N,10W	19,67N,10W	Scotland			x	x			B			
L. Gravois Cr.	P	4.2	Mouth	1,40N,16W	Miller			x	x			A			
L. Gravois Cr.	C	3.0	1,40N,16N	30,41N,15W	Miller			x	x			B			
L. Gravois Cr.	P	4.0	Mouth	21,42N,17W	Morgan			x	x			A	x		
L. Hazel Cr.	P	1.5	Mouth	29,36N,1E	Washington			x	x			B			
L. Hazel Cr.	C	0.5	29,36N,1E	32,36N,1E	Washington			x	x			B			
L. Hogles Cr.	P	1.2	Mouth	09,39N,23W	Benton			x	x			B			
L. Hogles Cr.	C	1.7	09,39N,23W	16,39N,23W	Benton			x	x			B			
L. Horseshoe Cr.	C	5.1	Mouth	11,48N,29W	Jackson	Lafayette		x	x				x		
L. Hunting Slough	C	5.0	Mouth	14,22N,6E	Butler		x	x	x			B			
L. Hurricane Cr.	C	4.0	Mouth	7,24N,3W	Oregon			x	x			B			
L. Hurricane Cr.	C	1.6	Mouth	1,54N,22W	Carroll			x	x			B			
L. Indian Cr.	P	2.7	Mouth	19,32N,14E	Cape Girardeau			x	x			B			
L. Indian Cr.	C	2.0	19,32N,14E	25,32N,13E	Cape Girardeau			x	x			B			
L. Indian Cr.	P	8.7	Mouth	30,40N,2E	Franklin	Washington		x	x			B			
L. Indian Cr.	C	1.0	30,40N,2E	31,40N,2E	Washington			x	x			B			
L. Lake Cr.	C	5.1	Mouth	31,29N,5E	Wayne			x	x			B			
L. Lead Cr.	C	4.0	27,50N,2W	20,50N,2W	Lincoln			x	x			B			
L. Lindley Cr.	C	3.7	Mouth	15,34N,20W	Dallas			x	x			B			
L. Lost Cr.	C	1.5	Mouth	18,46N,3W	Warren			x	x			B			
L. Lost Cr.	P	1.7	Mouth	26,37N,1W	Washington			x	x			B			
L. Lost Cr.	P	5.8	Mouth	28,25N,33W	Newton			x	x			B			
L. Loutre Cr.	C	10.3	Mouth	5,49N,6W	Montgomery			x	x			B			
L. Maries Cr.	P	8.5	Mouth	24,42N,11W	Osage			x	x	x		B			
L. Maries Cr.	C	1.0	24,42N,11W	23,42N,11W	Osage			x	x			B			
L. Maries R.	P	6.9	Mouth	12,40N,11W	Maries			x	x			B			
L. Maries R.	C	12.3	12,40N,11W	28,39N,11W	Maries			x	x			B			
L. Medicine Cr.	P	39.8	Mouth	State Line	Grundy	Mercer		x	x			B			
L. Meramec R.	P	3.5	Mouth	7,41N,2E	Franklin			x	x			B			
	P		7,41N,2E	8,41N,2E	Franklin			x	x			B			
L. Meramec R.	C	1.2	8,41N,2E	16,41N,2E	Franklin			x	x			B			
L. Mill Cr.	P	5.9	Mouth	33,38N,21W	Hickory			x	x			B			
L. Monegaw Cr.	C	9.0	Mouth	36,39N,27W	St. Clair			x	x			B			
L. Moniteau Cr.	P	3.3	Mouth	3,45N,14W	Moniteau			x	x			A			
L. Moniteau Cr.	C	5.1	3,45N,14W	18,45N,14W	Moniteau			x	x			B			
L. Muddy Cr.	P	2.0	Mouth	Sur 2219,32,10E	Cape Girardeau	Bollinger		x	x			B			
L. Muddy Cr.	C	6.8	Sur 2219,32N,10E	Sur 3144,33N,10E	Bollinger			x	x			B	x		
L. Muddy Cr.	C	4.1	Mouth	17,60N,27W	Daviess			x	x			B			
L. Muddy Cr.	C	7.1	Mouth	State Line	Mercer			x	x			B			
L. Muddy Cr.	C	7.5	Mouth	18,46N,22W	Pettis			x	x			B			
L. Mussel Cr.	C	4.4	Mouth	17,61N,17W	Adair			x	x			B			

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L. N. Fk. White R.	P	8.9	Mouth	36,24N,16W	Ozark			x	x	x		B			
L. N. Fk. White R.	C	6.9	36,24N,16W	3,24N,16W	Ozark			x	x	x		B			
L. N. Fork	C	15.1	Mouth	30,31N,32W	Jasper	Barton	x	x	x			B			
L. Niangua R.	P	43.8	Mouth	26,36N,19W	Camden	Dallas		x	x	x		A	x		
L. Niangua R.	C	8.0	26,36N,19W	20,35N,19W	Dallas			x	x			A	x		
L. No Cr.	C	4.9	Mouth	30,63N,22W	Grundy			x	x			B			
L. Noix Cr.	C	1.7	Mouth	28,54N,2W	Pike			x	x					x	
L. Osage R.	P	[27.4] 19.0	[19,38N,29W]	18,37N,31W	Vernon			x	x			B	x		
			Mouth												
L. Osage R.	C	23.6	18,37N,31W	18,37N,33W	Vernon			x	x			B			
L. Otter Cr.	C	6.2	Mouth	6,55N,11W	Monroe			x	x			B			
L. Otter Cr.	C	3.0	Mouth	4,56N,27W	Caldwell			x	x			B			
L. Paddy Cr.	C	3.5	Mouth	36,33N,11W	Texas			x	x			B			
L. Pike Cr.	C	1.6	Mouth	3,26N,2W	Carter			x	x			B			
L. Piney Cr.	P	7.2	Mouth	25,37N,9W	Phelps			x	x	x		A	x		
L. Piney Cr.	P	13.5	25,37N,9W	4,35N,8W	Phelps			x	x		x	A	x		
L. Piney Cr.	C	5.4	4,35N,8W	21,35N,8W	Phelps			x	x		x	B			
L. Piney Cr.	C	1.9	Mouth	12,33N,12W	Texas			x	x			B			
L. Platte R.	P	13.3	Mouth	Smithville Dam	Platte	Clay		x	x			B	x		
L. Platte R.	C	24.3	Mouth	28,57N,31W	Clinton			x	x			A	x		
L. Pomme de Terre R.	C	5.0	15,38N,23W	3,37N,23W	Benton	Hickory		x	x	x		A	x		
L. Pomme de Terre R.	C	6.0	Mouth	25,31N,21W	Polk	Greene		x	x			B			
L. Pomme de Terre R.	P	15.8	Mouth	15,38N,23W	Benton	Hickory		x	x			A	x		
L. Profits Cr.	P	1.7	Mouth	30,42N,11W	Osage			x	x			B			
L. Profits Cr.	C	0.5	30,42N,11W	30,42N,11W	Osage			x	x			B			
L. Ramsey Cr.	C	1.0	Mouth	16,52N,1E	Pike			x	x			B			
L. Richland Cr.	C	5.5	Mouth	12,44N,18W	Morgan			x	x			A	x		
L. Rock Cr.	C	2.3	Mouth	8,32N,5E	Madison			x	x			B			
L. Rocky Cr.	P	0.7	Mouth	12,28N,3W	Shannon			x	x			B			
L. Rocky Cr.	C	0.5	12,28N,3W	1,28N,3W	Shannon			x	x			B			
L. Sac R.	P	37.0	Mouth	McDaniel Lk. Dam	Polk	Greene		x	x	x		A	x		
L. Sac R.	P	1.3	Mouth	17,30N,21W	Greene			x	x			B			
L. Sac R.	C	2.2	17,30N,21W	Fellows Lake Dam	Greene			x	x			B			
L. Sac R.	C	2.3	Mouth	21,30N,20W	Greene			x	x			B			
L. Saline Cr.	P	5.4	Mouth	29,41N,14W	Miller			x	x			B			
L. Saline Cr.	P	10.3	Mouth	24,36N,8E	Ste. Genevieve			x	x			B			
L. Sandy Cr.	C	6.0	Mouth	9,51N,1W	Lincoln			x	x			B			
L. Shaver Cr.	C	4.5	Mouth	04,45N,20W	Pettis			x	x			B	x		
L. Shawnee Cr.	P	2.0	Mouth	29,29N,3W	Shannon			x	x			B			
L. Shawnee Cr.	C	2.0	29,29N,3W	4,28N,3W	Shannon			x	x			B			
L. Shoal Cr.	P	1.9	Mouth	13,36N,2W	Crawford			x	x			A			
L. Shoal Cr.	C	1.7	13,36N,2W	24,36N,2W	Crawford			x	x			B			
L. Shoal Cr.	C	3.3	Mouth	24,51N,32W	Clay			x	x			B			
L. Shoal Cr.	C	8.7	Mouth	4,66N,16W	Putnam			x	x			B			
L. Sinking Cr.	P	4.0	Mouth	26,32N,3W	Shannon	Dent		x	x			B			
L. Sinking Cr.	C	1.0	26,32N,3W	23,32N,3W	Dent			x	x			B			
L. Sni-a-bar Cr.	P	6.7	Mouth	30,50N,27W	Lafayette			x	x			B			

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L. Sni-a-bar Cr.	C	7.5	30,50N,27W	16,49N,27W	Lafayette			x	x			B			
L. Splice Cr.	P	1.7	Mouth	16,47N,14W	Moniteau			x	x			B			
L. Splice Cr.	C	2.3	16,47N,14W	20,47N,14W	Moniteau			x	x			B			
L. St. Francis R.	P	32.4	Mouth	32,35N,07E	Madison	St. Francois		x	x	x		A	x	x	
L. St. Francis R.	C	0.8	32,35N,7E	32,35N,7E	Madison	St. Francois		x	x			B			
L. Sugar Cr.	C	4.0	Mouth	10,49N,1E	Lincoln			x	x			B			
L. Sugar Cr.	P	13.2	Mouth	State Line	McDonald		x	x	x	x		A	x		
L. Tabo Cr.	C	9.2	Mouth	3,50N,25W	Lafayette			x	x			B			
L. Tarkio Cr.	C	15.4	30,63N,39W	13,65N,39W	Atchison			x	x			B			
L. Tarkio Cr.	P	17.7	Mouth	19,63N,39W	Holt			x	x			B	x		
L. Tarkio Ditch	P	6.6	Mouth	36,61N,39W	Holt			x	x			B			
L. Taum Sauk Cr.	C	2.3	Mouth	25,33N,2E	Reynolds			x	x			B			
L. Tavern Cr.	C	4.0	Mouth	33,42N,13W	Miller	Cole		x	x	x		A			
L. Tavern Cr.	P	1.5	33,39N,12W	34,39N,12W	Miller			x	x			B			
L. Tavern Cr.	C	1.5	34,39N,12W	10,38N,12W	Miller			x	x			B			
L. Tavern Cr.	P	11.2	Mouth	5,39N,11W	Miller	Maries		x	x			A			
L. Tavern Cr.	C	1.0	Mouth	11,44N,2E	Franklin			x	x			B			
L. Tavern Cr.	C	2.7	05,39N,11W	07,39N,11W	Maries			x	x			B			
L. Tavern Cr.	C	1.0	Mouth	36,46N,7W	Callaway			x	x			B			
L. Tebo Cr.	C	6.0	Mouth	20,42N,22W	Benton			x	x			A	x		
L. Third Cr.	C	4.6	Mouth	23,42N,7W	Osage			x	x			B			
L. Third Fk. Platte R.	C	26.0	Mouth	27,60N,32W	DeKalb			x	x			B			
L. Turkey Cr.	C	2.3	Mouth	36,40N,22W	Benton			x	x			B			
L. Walnut Cr.	C	2.3	18,60N,16W	14,60N,17W	Macon			x	x			B			
L. Walnut Cr.	C	2.8	Mouth	26,47N,24W	Johnson			x	x			B			
L. Weaubleau Cr.	P	5.9	Mouth	09,36N,23W	St. Clair	Hickory		x	x	x		B	x		
L. Weaubleau Cr.	C	3.3	9,36N,23W	12,36N,23W	St. Clair	Hickory		x	x			A			
L. Whitewater Cr.	P	24.2	Mouth	16,33N,9E	Cape Girardeau	Bollinger		x	x			A			
L. Whitewater Cr.	C	0.5	Mouth	8,33N,9E	Bollinger			x	x			B			
L. Wilson Cr.	P	2.9	Mouth	25,32N,21W	Polk			x	x			B			
L. Wilson Cr.	C	2.3	25,32N,21W	32,32N,20W	Dallas			x	x			B			
L. Wyaconda R.	P	7.4	Mouth	34,64N,8W	Clark			x	x			B			
L. Wyaconda R.	C	7.5	34,64N,8W	25,64N,9W	Clark			x	x			B			
La Barque Cr.	P	4.5	Mouth	32,43N,3E	Jefferson			x	x			B			
Labadie Cr.	P	5.0	Mouth	31,44N,2E	Franklin			x	x			B			
Labadie Cr.	C	0.5	Mouth	36,44N,1E	Franklin			x	x			B	x		
Ladies Br.	C	7.8	Mouth	24,37N,30W	Vernon			x	x			B			
Lake Cr.	C	10.2	12,44N,20W	17,43N,20W	Pettis	Benton		x	x	x		B			
Lake Cr.	C	5.7	Mouth	20,54N,19W	Chariton			x	x			B			
Lake Cr.	C	3.3	Mouth	29,58N,25W	Livingston			x	x			B			
Lake Cr.	P	5.4	Mouth	12,44N,20W	Pettis			x	x	x		B			
Lake Cr.	C	6.6	Mouth	34,58N,25W	Livingston			x	x			B			
Lake Ditch	C	1.8	Mouth	01,42N,09W	Osage			x	x			B			
Lake Slough	C	9.3	3,23N,7E	31,25N,8E	Butler			x	x			B			
Lamine R.	P	64.0	Mouth	13,45N,19W	Cooper	Morgan	x	x	x			A	x		
Landing Cr.	C	1.0	Mouth	16,42N,12W	Cole			x	x			B			
Landon Br.	C	3.0	Mouth	5,34N,31W	Vernon			x	x			B			

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Lanes Fk.	C	2.8	Mouth	32,39N,7W	Maries			x	x			B			
Langejammer Cr.	C	1.5	Mouth	30,43N,4W	Gasconade			x	x			B			
Larry Cr.	C	1.2	Mouth	2,59N,28W	Daviess			x	x			B			
Lateral #2	C	2.4	Mouth	8,18N,12E	Pemiscot			x	x			B			
Lateral #2 Main Ditch	P	11.5	24,23N,10E	25,25N,10E	Stoddard			x	x			B			
Lateral #2 Main Ditch	C	4.1	25,25N,10E	6,25N,11E	Stoddard			x	x			B			
Lateral #27	P	6.0	29,16N,9E	30,16N,10E	Dunklin			x	x			B			
Lateral #27	C	3.3	Mouth	32,20N,13E	Pemiscot			x	x			B			
Lateral #4	C	3.2	Mouth	21,27N,14E	Scott		x	x	x			B	x		
Lateral Ditch	C	2.0	Mouth	32,22N,8E	Butler			x	x			B			
Lateral Ditch	C	5.8	Mouth	3,22N,7E	Butler			x	x			B			
Lateral Ditch #1	C	4.0	Mouth	19,23N,10E	Dunklin			x	x			B			
Lateral Ditch #2	C	2.4	Mouth	9,22N,10E	Dunklin			x	x					x	
Lateral Ditch #37	C	4.3	Mouth	20,22N,8E	Butler			x	x			B			
Laurie Hollow	C	1.4	Mouth	18,39N,17W	Camden			x	x					x	
Lead Cr.	P	1.0	Mouth	7,49N,1W	Lincoln			x	x			B			
Lead Cr.	C	7.5	7,49N,1W	27,50N,2W	Lincoln			x	x			B			
Leatherwood Cr.	P	1.7	Mouth	9,31N,5E	Madison			x	x			B			
Leatherwood Cr.	C	2.5	9,31N,5E	6,31N,5E	Madison			x	x			B			
Lee Hollow	C	1.0	Mouth	27,26N,7W	Howell			x	x			B			
Lee Rowe Ditch	C	6.0	30,24N,16E	30,25N,16E	Mississippi			x	x			B			
Leeper Cr.	C	8.4	Mouth	21,58N,23W	Livingston			x	x			B			
Lewis Slough	C	2.0	Mouth	32,67N,42W	Atchison			x	x			B			
Lick Br.	C	1.5	Mouth	2,24N,10W	Howell			x	x			B			
Lick Br.	C	6.6	Mouth	19,43N,29W	Cass			x	x			B			
Lick Br.	C	1.8	Mouth	27,29N,3E	Wayne			x	x			B			
Lick Cr.	C	5.5	Mouth	9,53N,7W	Ralls			x	x			B			
Lick Cr.	P	2.0	Mouth	2,38N,4W	Crawford			x	x			B			
Lick Cr.	C	2.5	2,38N,4W	27,39N,4W	Crawford			x	x					x	
Lick Cr.	C	1.0	Mouth	32,22N,16W	Ozark			x	x			B			
Lick Cr.	P	6.8	25,22N,13W	19,22N,13W	Ozark			x	x			B			
Lick Cr.	C	6.1	19,22N,13W	30,23N,13W	Ozark			x	x			B			
Lick Cr.	C	4.2	Mouth	6,27N,8E	Wayne			x	x			B			
Lick Cr.	P	3.4	Mouth	25,22N,13W	Ozark			x	x			A			
Lick Cr. Ditch	C	16.2	33,25N,9E	15,26N,10E	Stoddard			x	x			B	x		
Lick Fk.	C	8.9	Mouth	02,50N,27W	Lafayette			x	x			B			
Lick Fk.	C	10.1	Mouth	15,51N,13W	Boone			x	x			B			
Lick Fk.	P	5.7	Mouth	30,58N,26W	Daviess			x	x			B			
Lick Fk.	C	9.8	30,58N,26W	7,57N,27W	Daviess	Caldwell		x	x			B			
Lick Fk.	C	1.9	Mouth	2,50N,15W	Howard			x	x			B			
Lick Fk.	C	0.5	Mouth	20,44N,16W	Moniteau			x	x			B			
Lick Log Cr.	P	1.6	Mouth	32,29N,8E	Bollinger			x	x			B			
Lick Log Cr.	C	1.2	32,29N,8E	31,29N,8E	Bollinger			x	x			B			
Ligett Cr.	C	1.0	Mouth	9,26N,5E	Butler			x	x			B			
Limestone Cr.	P	8.4	Mouth	24,30N,27W	Dade			x	x	x		A			
Lincoln Cr.	C	7.4	Mouth	14,60N,36W	Andrew			x	x			B			
Lindley Cr.	P	24.1	Mouth	20,34N,20W	Hickory	Dallas		x	x			B			

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Lindley Cr.	C	2.4	20,34N,20W	32,34N,20W	Dallas			x	x				x		
Line Cr.	C	7.0	Mouth	Lake Waukomis	Platte			x	x			B			
Liner Cr.	C	1.4	Mouth	9,21N,12W	Ozark			x	x			B			
Linn Cr.	C	2.3	Mouth	31,66N,8W	Clark			x	x				x		
Linn Cr.	C	6.0	Mouth	7,43N,8W	Osage			x	x			B			
Little Cr.	C	1.2	Mouth	25,51N,12W	Boone			x	x			B			
Little Cr.	C	1.5	Mouth	3,40N,5E	Jefferson			x	x				x		
Little Cr.	C	5.0	Mouth	17,24N,15W	Ozark			x	x			B	x		
Little Cr.	C	2.5	Mouth	36,22N,14W	Ozark			x	x			B			
Little Cr.	C	8.0	Mouth	1,25N,8W	Howell			x	x			B			
Little Cr.	C	4.0	Mouth	26,32N,4W	Shannon	Dent		x	x			B			
Little Cr.	C	2.7	Mouth	19,34N,1W	Iron			x	x			B			
Little Cr.	C	1.0	Mouth	12,32N,3E	Iron			x	x			B			
Little Cr.	P	3.1	Mouth	35,28N,6E	Wayne			x	x			B			
Little Cr.	C	2.7	Mouth	3,42N,3W	Franklin			x	x				x		
Little Cr.	C	11.3	Mouth	31,65N,28W	Harrison			x	x			B			
Little Cr.	C	3.5	Mouth	11,46N,28W	Johnson			x	x			B			
Little Cr.	P	2.7	Mouth	8,30N,7E	Wayne			x	x			B			
Little R.	P	8.0	Mouth	State Line	Mercer			x	x			B			
Littleby Cr.	C	16.0	Mouth	24,51N,8W	Audrain			x	x			B			
Locust Cr.	P	91.7	Mouth	State Line	Chariton	Putnam		x	x			B	x	x	
Log Cr.	C	8.8	Mouth	6,55N,28W	Caldwell			x	x			B	x		
Logan Cr.	P	7.2	Mouth	36,23N,3E	Ripley			x	x			B			
Logan Cr.	C	7.5	36,23N,3E	9,23N,3E	Ripley			x	x			B			
Logan Cr.	P	36.0	27,29N,2E	26,31N,2W	Reynolds			x	x			A	x		
Logan Cr.	C	5.8	Mouth	30,46N,7W	Callaway			x	x			A	x		
Logan Cr.	C	3.4	Mouth	19,44N,13W	Cole			x	x			B			
Long Br.	C	29.0	7,53N,8W	7,52N,11W	Monroe	Audrain		x	x			B			
Long Br.	C	1.5	Mouth	25,44N,2W	Franklin			x	x			B			
Long Br.	P	5.5	Mouth	06,45N,23W	Pettis	Johnson		x	x			B			
Long Br.	C	3.0	Mouth	29,66N,38W	Atchison			x	x			B			
Long Br.	C	3.0	Mouth	28,37N,19W	Camden			x	x			B			
Long Br.	P	6.3	Mouth	6,62N,34W	Nodaway			x	x			B			
Long Br.	C	15.0	6,62N,34W	8,64N,34W	Nodaway			x	x			B			
Long Br.	C	1.5	Mouth	27,45N,25W	Johnson			x	x			B			
Long Br.	C	2.1	Mouth	24,40N,11W	Maries			x	x			B			
Long Br.	C	5.7	Mouth	19,62N,31W	Gentry			x	x			B			
Long Br.	C	14.5	Mouth	11,59N,20W	Linn			x	x			B		x	
Long Br.	C	8.8	Mouth	18,55N,18W	Chariton			x	x			B			
Long Br.	C	6.0	06,45N,23W	09,45N,24W	Pettis	Johnson		x	x			B			
Long Branch Cr.	C	14.8	18,58N,14W	19,60N,14W	Macon			x	x			B	x		
Long Cr.	C	2.3	Mouth	16,40N,08W	Maries			x	x			B			
Long Cr.	C	3.3	Mouth	4,55N,28W	Caldwell			x	x			B			
Long Cr.	C	5.0	Mouth	26,54N,18W	Chariton			x	x			B			
Long Gravel Br.	P	1.0	Mouth	5,33N,5E	Madison			x	x			B			
Long Grove Br.	C	3.2	31,48N,20W	07,47N,20W	Pettis			x	x			B			
Long Grove Br.	P	0.9	Mouth	31,48N,20W	Pettis			x	x			B			

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Long Run	C	1.9	Mouth	27,23N,16W	Ozark			x	x			B			
Longan Br.	C	2.3	26,41N,16W	14,41N,16W	Miller			x	x			B			
Longs Cr.	C	1.0	Mouth	Sur 768,33N,9E	Bollinger			x	x			B			
Loose Cr.	C	8.5	16,44N,9W	10,43N,9W	Osage			x	x			B			
Loose Cr.	P	9.5	Mouth	16,44N,9W	Osage			x	x			B			
Lost Camp Cr.	C	5.3	Mouth	20,26N,8W	Howell			x	x			B			
Lost Cr.	P	6.4	Mouth	15,46N,3W	Warren			x	x	x		B			
Lost Cr.	C	3.8	15,46N,3W	2,46N,3W	Warren			x	x			B			
Lost Cr.	P	8.3	Mouth	19,37N,1E	Crawford	Washington		x	x			B			
Lost Cr.	C	3.0	19,37N,1E	29,37N,1E	Washington			x	x			B			
Lost Cr.	P	1.0	Mouth	5,35N,3E	Washington			x	x			B			
Lost Cr.	C	2.5	5,35N,3E	9,35N,3E	Washington			x	x			B			
Lost Cr.	P	8.5	State Line	14,25N,33W	Newton			x	x	x		A	x		
Lost Cr.	C	25.2	Mouth	King Lake	DeKalb			x	x			B			
Lost Cr.	C	5.5	15,64N,16W	5,64N,15W	Schuyler			x	x			B			
Lost Cr.	C	1.8	Mouth	36,61N,32W	DeKalb	Gentry		x	x			B			
Lottie Hollow	C	1.0	Mouth	35,24N,12W	Ozark			x	x			B			
Lotts Cr.	C	9.7	Mouth	8,66N,29W	Worth	Harrison		x	x			B			
Loutre Cr.	C	4.5	Mouth	30,46N,4W	Warren			x	x			B			
Loutre R.	P	39.4	Mouth	5,48N,6W	Montgomery			x	x			B			
Loutre R.	C	15.1	5,48N,6W	36,50N,8W	Montgomery	Audrain		x	x			B			
Loutre Slough	PI	5.5	Mouth	19,46N,4W	Warren			x	x			B			
Lovejoy Cr.	P	1.0	Mouth	Sur 2246,33N,14E	Cape Girardeau			x	x			B			
Lovejoy Cr.	C	1.5	Sur 2246,33N,14E	24,33N,13E	Cape Girardeau			x	x			B			
Lower Peavine Cr.	C	1.0	Mouth	11,40N,7W	Maries			x	x			B			
Lower Rock Cr.	C	3.5	Mouth	32,33N,5E	Madison			x	x			B			
Ludecker Hollow	C	2.0	Mouth	4,23N,14W	Ozark			x	x			B			
Lumpkin Cr.	C	0.5	Mouth	29,47N,32W	Jackson			x	x			B			
Luther Br.	C	0.6	Mouth	32,38N,06W	Phelps			x	x			B			
Luystown Cr.	C	2.0	Mouth	16,44N,8W	Osage			x	x			B			
Luzon Br.	C	1.0	13,44N,10W	24,44N,10W	Osage			x	x			B			
Luzon Br.	P	0.7	Mouth	13,44N,10W	Osage			x	x			B			
Lyman Cr.	C	1.0	Mouth	30,40N,3W	Crawford			x	x		x	A			
M. Fk. Fourche a Renault Cr.	C	1.8	Mouth	25,37N,1E	Washington			x	x			B			
M. Fk. L. Chariton R.	C	17.6	Mouth	3,58N,15W	Macon			x	x			B			
M. Fk. Little Chariton R.	P	31.5	Mouth	24,55N,16W	Chariton	Randolph		x	x			B		x	
M. Fk. Salt R.	P	58.1	Mouth	16,56N,13W	Monroe	Macon	x	x	x			B	x	x	
M. Fk. Salt R.	C	25.4	16,56N,13W	23,59N,14W	Macon			x	x			B			
Mace Cr.	C	5.8	Mouth	25,59N,36W	Andrew			x	x			B			
Macks Cr.	P	8.7	Mouth	12,37,19W	Camden			x	x			B			
Macks Cr.	C	2.8	12,37N,19W	23,37N,19W	Camden			x	x				x		
Madden Cr.	C	4.5	Mouth	29,36N,8E	Ste. Genevieve			x	x			B			
Maddin Cr.	C	1.9	Mouth	35,39N,3E	Washington			x	x			B			
Maddox Br.	C	2.8	35,48N,9W	23,48N,9W	Callaway			x	x			B			
Mag Cr.	C	0.1	Mouth	26,40N,10W	Maries			x	x			B			
Mahans Cr.	P	4.3	Mouth	9,28N,4W	Shannon			x	x	x		B			

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Mahans Cr.	C	4.4	9,28N,4W	28,28N,04W	Shannon			x	x			B			
Main Ditch	C	13.0	18,22N,6E	15,24N,6E	Butler		x	x	x			B			
Main Ditch	P	11.9	14,16N,10E	30,18N,11E	Peniscot			x	x			B	x		
Main Ditch	P	23.2	8,19N,10E	19,23N,10E	Dunklin			x	x			B			
Main Ditch	C	6.0	19,23N,10E	20,24N,10E	Dunklin	Stoddard		x	x					x	
Main Ditch #36	C	1.8	21,19N,10E	9,19N,10E	Dunklin			x	x			B			
Main Ditch #8	P	18.3	27,18N,10E	3,19N,12E	Peniscot			x	x			B			
Main Ditch #8	C	11.5	3,19N,12E	18,20N,14E	Peniscot			x	x					x	
Malaruni Cr.	C	1.5	Mouth	19,56N,3W	Ralls			x	x			B			
Maline Cr.	C	0.6	Sur 3125,46N,7E	9,46N,7E	St. Louis City	St. Louis		x	x			B	x		
Maline Cr.	C	0.5	Mouth	Sur 3125,46N,7E	St. Louis City			x	x					x	
Malone Cr.	P	6.9	Mouth	34,30N,10E	Bollinger			x	x			B			
Malone Cr.	C	2.3	34,30N,10E	28,30N,10E	Bollinger			x	x			B			
Mammoth Cr.	P	0.7	Mouth	11,39N,03E	Jefferson			x	x			B			
Manacle Cr.	C	2.4	Mouth	35,49N,11W	Callaway			x	x					x	
Maple Slough	C	18.2	Mouth	11,26N,15E	New Madrid	Mississippi		x	x			B			
Marais des Cygnes R.	P	[32.0]/49.0	[19,38N,29W] Mouth	State Line	Bates		x	x	x			A	x	x	
Marble Cr.	P	14.7	Mouth	28,33N,4E	Madison	Iron		x	x	x		B	x		
Marble Cr.	C	1.0	28,33N,4E	20,33N,4E	Iron			x	x			B			
Maries R.	P	44.0	Mouth	24,40N,10W	Osage	Maries		x	x	x		A	x		
Maries R.	C	18.1	24,40N,10W	13,38N,11W	Maries			x	x			B			
Marlin Cr.	C	3.4	34,48N,20W	04,47N,20W	Pettis			x	x			B			
Martin Cr.	P	3.7	Mouth	34,48N,20W	Pettis			x	x			B			
Marlowe Cr.	P	6.7	Mouth	30,66N,31W	Worth			x	x			B			
Marlowe Cr.	C	1.0	30,66N,31W	19,66N,31W	Worth			x	x			B			
Marmaton R.	P	35.7	11,37N,31W	State Line	Vernon		x	x	x			B			
Marney Br.	C	5.4	Mouth	3,43N,15W	Moniteau			x	x			B			
Marrowbone Cr.	C	13.9	36,58N,28W	15,58N,29W	Daviess			x	x			B			
Marrowbone Cr.	P	11.5	Mouth	36,58N,28W	Daviess			x	x			B			
Marsh Cr.	P	2.3	Mouth	34,32N,5E	Madison			x	x			B			
Marsh Cr.	C	0.6	34,32N,5E	33,32N,5E	Madison			x	x			B			
Marshalls Cr.	C	15.4	Mouth	33,40N,27W	Henry			x	x			B			
Martin Br.	C	0.5	Mouth	2,40N,04W	Franklin			x	x			B			
Martin Cr.	C	6.9	Mouth	27,64N,25W	Harrison	Mercer		x	x			B			
Martin Hollow	C	1.0	Mouth	1,32N,7E	Madison			x	x			B			
Marys Cr.	P	1.0	Mouth	03,39N,01W	Washington			x	x			B			
Marys Hollow	C	4.6	Mouth	5,24N,11W	Ozark			x	x			B			
Mash Cr.	P	0.5	Mouth	12,30N,4W	Shannon			x	x			B			
Mash Cr.	C	2.0	12,30N,4W	35,31N,4W	Shannon			x	x			B			
Mash Hollow	C	1.0	Mouth	33,24N,24W	Stone			x	x			B			
Mason Springs Valley	P	1.0	State Line	21,24N,34W	Newton			x	x			B			
Massey Cr.	C	7.0	2,44N,33W	20,45N,33W	Cass			x	x			B			
Massie Cr.	P	4.0	Mouth	10,46N,4W	Warren			x	x			B			
Massie Cr.	C	3.5	10,46N,4W	36,47N,4W	Warren			x	x			B			
Mattese Cr.	P	1.1	Mouth	15,43N,6E	St. Louis			x	x			B	x		
Maupin Br.	C	1.6	Mouth	35,47N,14W	Moniteau			x	x			B			

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Maupin Cr.	P	1.3	Mouth	36,41N,02E	Jefferson			x	x			B			
Max Cr.	C	3.6	Mouth	26,24N,19W	Taney			x	x			B			
May Br.	C	0.5	Mouth	Hwy AN	Franklin			x	x			B			
May Br.	C	3.5	Mouth	30,48N,22W	Saline	Pettis		x	x			B			
Mayfield Cr.	P	0.8	Mouth	21,32N,10E	Bollinger			x	x			B			
Mayfield Cr.	C	2.7	21,32N,10E	18,32N,10E	Bollinger			x	x			B			
Mayhan Br.	C	1.3	Mouth	18,28N,08W	Texas			x	x					x	
Maze Cr.	C	2.0	Mouth	9,32N,25W	Dade			x	x			B			
McCarty Cr.	C	13.2	Mouth	31,34N,29W	Vernon			x	x			B			
McClanahan Cr.	C	2.5	Mouth	Sur 911,36N,11E	Perry			x	x			B			
McCoy Cr.	P	1.9	Mouth	6,47N,2E	St. Charles			x	x			B			
McCoy Cr.	C	4.5	6,47N,2E	10,47N,1E	St. Charles			x	x			B			
McDade Br.	P	0.7	Mouth	9,39N,5W	Crawford			x	x			B			
McDade Br.	C	1.7	9,39N,5W	17,39N,5W	Crawford			x	x			B			
McElroy Cr.	C	3.0	Mouth	9,66N,41W	Atchison			x	x			B			
McGee Br.	C	3.9	Mouth	03,44N,20W	Pettis			x	x			B			
McGee Cr.	P	7.2	Mouth	20,28N,8E	Wayne			x	x			B			
McGuire Br.	C	5.4	Mouth	7,56N,32W	Clinton			x	x			B			
McKenzie Cr.	P	6.3	Mouth	23,29N,3E	Wayne			x	x			B			
McKenzie Cr.	C	4.7	23,29N,3E	34,30N,3E	Wayne			x	x					x	
McKenzie Cr.	C	5.5	Mouth	06,37N,29W	Vernon			x	x			B			
McKill Cr.	P	2.7	Mouth	34,34N,33W	Vernon			x	x			B			
McKill Cr.	C	2.2	34,34N,33W	35,34N,33W	Vernon			x	x			B			
McKinney Cr.	C	0.7	Mouth	23,48N,9W	Callaway			x	x			B			
McLean Cr.	C	6.6	Mouth	16,49N,2E	Lincoln			x	x			B			
McMullen Br.	C	1.2	Mouth	18,39N,5E	Jefferson			x	x					x	
McVey Br.	C	1.5	Mouth	3,21N,16W	Ozark			x	x			B			
Meadows Cr.	P	1.4	Mouth	10,45N,13W	Cole			x	x			B			
Meadows Cr.	C	2.0	10,45N,13W	16,45N,13W	Cole			x	x			B			
Meddleberger Br.	C	1.1	Mouth	34,40N,11W	Maries			x	x			B			
Medicine Cr.	P	31.3	Mouth	9,61N,22W	Livingston	Grundy		x	x			B			
Medicine Cr.	P	43.8	9,61N,22W	State Line	Grundy	Putnam		x	x			B			
Medlen Cr.	C	1.0	Mouth	6,43N,15W	Moniteau			x	x			B			
Melton Cr.	C	2.8	Mouth	21,36N,29W	Vernon			x	x			B			
Menorkenut Slough	C	10.4	Mouth	33,24N,8E	Butler			x	x			B		x	
Meramec R.	P	76.0	Big R.	Meramec State Pk.	Jefferson	Franklin		x	x	x		A	x	x	x
Meramec R.	P	51.3	13,40N,2W	22,38N,5W	Franklin	Crawford		x	x	x		A	x		x
Meramec R.	P	10.0	22,38N,5W	6,37N,5W	Crawford			x	x	x	x	A	x		
Meramec R.	P	38.9	7,37N,5W	19,34N,4W	Crawford	Dent		x	x	x		A	x		
Meramec R.	C	4.0	19,34N,4W	4,33N,4W	Dent			x	x	x		B			
Meramec R.	P	22.8	Mouth	18,44N,5E	St. Louis			x	x			A	x	x	x
Meramec R.	P	15.7	18,44N,5E	Big R.	St. Louis	Jefferson		x	x	x		A	x	x	x
Merrills Br.	C	3.2	Mouth	19,58N,8W	Marion			x	x			B			
Miami Cr.	P	19.6	Mouth	4,40N,32W	Bates			x	x			B			
Miami Cr.	C	15.6	10,40N,32W	4,41N,33W	Bates			x	x			B			
Mid. Fk. Shoal Cr.	C	1.3	Mouth	35,36N,2W	Crawford			x	x			B			
Mid. Richland Cr.	C	9.4	Mouth	6,42N,18W	Morgan			x	x			A	x		

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Middle Big Cr.	C	9.4	Mouth	Lake Winnebago Dam	Cass			x	x			B			
Middle Br. Squaw Cr.	C	3.0	Mouth	5,62N,38W	Holt			x	x			B			
Middle Brushy Cr.	C	7.0	Mouth	32,27N,3E	Wayne	Carter		x	x			A			
Middle Cr.	C	6.5	Mouth	14,62N,25W	Grundy			x	x			B			
Middle Fabius R.	P	75.7	Mouth	22,64N,12W	Lewis	Scotland		x	x			A	x	x	
Middle Fk.	P	7.0	Mouth	28,25N,6W	Oregon			x	x			A	x		
Middle Fk.	C	12.0	28,25N,6W	4,24N,7W	Oregon	Howell		x	x			B			
Middle Fk. Big Cr.	P	2.0	Mouth	19,31N,7E	Madison			x	x			B			
Middle Fk. Big Cr.	C	1.0	19,31N,7E	18,31N,7E	Madison			x	x			B			
Middle Fk. Black R.	P	21.0	Mouth	24,34N,1W	Reynolds	Iron		x	x	x		A			
Middle Fk. Black R.	C	1.2	24,34N,1W	13,34N,1W	Iron			x	x	x		A			
Middle Fk. Grand R.	P	27.5	Mouth	12,66N,31W	Gentry	Worth	x	x	x			A	x		
Middle Fk. Grand R.	C	2.5	12,66N,31W	State Line	Worth			x	x			B	x		
Middle Fk. Lost Cr.	C	8.0	Mouth	27,60N,31W	DeKalb			x	x			B			
Middle Fk. Tebo Cr.	C	7.5	Mouth	6,43N,24W	Henry			x	x			B			
Middle Fork	C	3.2	Mouth	20,43N,03W	Franklin			x	x			B			
Middle Indian Cr.	C	2.5	Mouth	19,27N,10W	Douglas	Howell		x	x			B			
Middle Indian Cr.	C	3.5	16,24N,30W	12,24N,30W	Newton			x	x			A	x		
Middle Indian Cr.	P	2.2	Mouth	16,24N,30W	Newton			x	x			B			
Middle Prong Brushy Cr.	C	1.0	Mouth	29,30N,3W	Shannon			x	x			B			
Middle Prong Crooked Cr.	P	2.2	Mouth	24,35N,4W	Dent			x	x			B			
Middle Prong Crooked Cr.	C	2.0	24,35N,4W	29,35N,3W	Dent	Crawford		x	x			B			
Middle R.	P	15.0	Mouth	4,45N,9W	Callaway			x	x			B			
Middle R.	C	10.6	4,45N,9W	2,46N,10W	Callaway			x	x			B			
Middle Tarkio Cr.	C	10.0	Mouth	State Line	Atchison		x	x	x			B	x		
Middlebrook Cr.	C	1.1	Mouth	07,34N,04E	St. Francois			x	x			B			
Mikes Cr.	P	4.0	Mouth	14,22N,30W	McDonald		x	x	x			A			
Mill Br.	P	1.2	Mouth	3,38N,2E	Washington			x	x			B			
Mill Br.	C	1.0	3,38N,2E	2,38N,2E	Washington			x	x			B			
Mill Cr.	P	1.5	Mouth	30,39N,14W	Miller			x	x			B			
Mill Cr.	C	2.0	30,39N,14W	28,39N,14W	Miller			x	x			B			
Mill Cr.	P	4.8	Mouth	25,37N,15W	Camden			x	x			A	x		
Mill Cr.	P	2.0	Mouth	9,36N,18W	Dallas			x	x		x	B			
Mill Cr.	P	1.5	9,36N,18W	8,36N,18W	Dallas			x	x			B			
Mill Cr.	P	5.8	Mouth	8,37N,21W	Hickory			x	x	x		B			
Mill Cr.	C	5.0	Mouth	Sur 1767,51N,1W	Lincoln			x	x			B	x		
Mill Cr.	P	1.3	Mouth	29,37N,9W	Phelps			x	x			A			
Mill Cr.	P	6.7	29,37N,9W	Yelton Spring	Phelps			x	x		x	A			
Mill Cr.	P	3.5	Yelton Spring	5,35N,9W	Phelps			x	x			B			
Mill Cr.	C	4.3	Mouth	3,36N,8E	Ste. Genevieve			x	x			B			x
Mill Cr.	C	0.8	36,36N,3E	36,36N,3E	Washington			x	x			B			
Mill Cr.	P	13.5	Mouth	8,37N,3E	St. Francois	Washington		x	x			B			
Mill Cr.	P	3.0	Mouth	36,36N,3E	Washington			x	x			B			
Mill Cr.	P	10.0	Mouth	2,59N,38W	Holt			x	x			B			
Mill Cr.	P	2.7	Mouth	8,27N,1W	Carter			x	x			A			
Mill Cr.	C	2.4	8,27N,1W	1,27N,2W	Carter			x	x			B			
Mill Cr.	C	1.4	Mouth	7,25N,6E	Butler			x	x			B			

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Mill Cr.	P	3.5	Mouth	33,33N,7E	Madison			x	x			B			
Mill Cr.	C	1.0	33,33N,7E	33,33N,7E	Madison			x	x			B			
Mill Cr.	C	2.0	Mouth	30,31N,5E	Wayne	Madison		x	x			B			
Mill Cr.	P	10.8	Mouth	State Line	Nodaway			x	x			B			
Mill Cr.	P	2.5	Mouth	24,21N,33W	McDonald			x	x			A			
Mill Cr.	C	3.9	Mouth	17,46N,33W	Jackson	Cass		x	x			B			
Mill Cr.	C	3.2	08,37N,21W	15,37N,21W	Hickory			x	x	x		B			
Mill Cr.	P	0.4	Mouth	21,39N,8W	Maries			x	x			B			
Mill Cr.	C	1.4	21,39N,8W	22,39N,08W	Maries			x	x			B			
Mill Cr.	P	0.5	Mouth	03,37N,10W	Phelps			x	x			B			
Mill Cr.	C	1.3	Mouth	8,56N,28W	Caldwell			x	x			B			
Mill Rock Cr.	C	1.3	Mouth	9,35N,2W	Crawford			x	x			B			
Mill Spring Cr.	P	1.0	Mouth	3,40N,8W	Maries			x	x			B			
Millan Hollow	C	1.4	Mouth	1,29N,20W	Greene			x	x			B			
Miller Cr.	C	6.6	Mouth	3,26N,4E	Wayne			x	x			B			
Millers Cr.	C	1.9	Mouth	14,47N,11W	Callaway			x	x			B			
Milligan Cr.	C	9.0	Mouth	18,53N,12W	Monroe			x	x			B			
Mine a Breton Cr.	P	9.0	7,38N,2E	10,37N,2E	Washington			x	x			B			
Mine a Breton Cr.	C	3.0	10,37N,2E	23,37N,2E	Washington			x	x			B			
Mineral Br.	C	1.7	Mouth	17,44N,15W	Moniteau			x	x			B			
Mineral Cr.	C	4.6	Mouth	20,44N,25W	Johnson			x	x			B			
Mineral Fk.	P	16.7	Mouth	7,38N,2E	Washington			x	x	x		A			
Mineral Spring Hollow	C	0.8	Mouth	30,31N,09W	Texas			x	x			B			
Mingo Cr.	C	2.0	Mouth	5,26N,8E	Stoddard			x	x			B			
Mingo Ditch	P	16.0	Mouth	32,27N,8E	Stoddard			x	x			B			
Minnow Br.	C	1.0	Mouth	25,41N,20W	Benton			x	x			B			
Minor Cr.	C	2.0	Mouth	11,33N,3E	Iron			x	x			B			
Mission Cr.	C	2.4	Hwy. 45	17,54N,36W	Platte			x	x			B			
Mississippi R.	P	6.3	N Riverfront Park	Missouri R.	St. Louis City	St. Charles	x	x	x			B	x	x	x
Mississippi R.	P	28.3	Meramec R.	N Riverfront Park	St. Louis	St. Louis City	x	x	x				x	x	x
Mississippi R.	P	125.1	State Line	Ohio R.	Pemiscot	Mississippi	x	x	x			B	x	x	x
Mississippi R.	P	94.4	Cuivre R.	Lock and Dam 21	St. Charles	Marion	x	x				A	x	x	x
Mississippi R.	P	44.1	Missouri R.	Cuivre R.	St. Charles			x	x			A	x	x	x
Mississippi R.	P	44.6	Kaskaskia R.	Meramec R.	Ste. Genevieve	St. Louis	x	x	x			B	x	x	x
Mississippi R.	P	120.1	Ohio R.	Kaskaskia R.	Mississippi	Ste. Genevieve	x	x	x			B	x	x	x
Mississippi R.	P	37.5	Lock & Dam 21	Des Moines R.	Marion	Clark		x	x			A	x	x	x
Missouri R.	P	104.5	Mouth	Gasconade R.	St. Louis	Gasconade	x	x	x			B	x	x	x
Missouri R.	P	129.0	Chariton R.	Kansas R.	Chariton	Jackson	x	x	x			B	x	x	x
Missouri R.	P	135.0	Gasconade R.	Chariton R.	Gasconade	Chariton	x	x	x			B	x	x	x
Missouri R.	P	184.5	Kansas R.	State Line	Jackson	Atchison	x	x	x			B	x	x	x
Mistaken Cr.	P	6.5	Mouth	20,42N,7W	Osage			x	x			B			
Mistaken Cr.	C	1.5	20,42N,7W	30,42N,7W	Osage			x	x			B			
Moccasin Cr.	C	2.6	Mouth	26,63N,33W	Gentry			x	x			B			
Modoc Cr.	C	3.3	[32,46N,5W]	25,46N,6W	Montgomery			x	x			B	x		
Monegaw Cr.	P	4.8	Mouth	21,38N,27W	St. Clair			x	x			A	x		

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Monegaw Cr.	C	18.4	21,38N,27W	4,39N,28W	St. Clair			x	x			B	x		
Moniteau Cr.	P	25.7	Mouth	5,50N,14W	Howard			x	x			B	x		
Moniteau Cr.	C	14.4	5,50N,14W	16,52N,14W	Howard	Randolph		x	x			B			
Moniteau Cr.	C	16.1	16,46N,15W	21,46N,17W	Moniteau	Cooper		x	x			B	x		
Moniteau Cr.	P	19.6	Mouth	16,46N,15W	Cole	Moniteau		x	x			B	x		
Montgomery Br.	C	6.5	15,38N,23W	6,37N,22W	Hickory			x	x			B			
Mooney Br.	C	2.2	Mouth	3,33N,10W	Texas			x	x					x	
Moore Br.	C	5.7	Mouth	27,35N,31W	Vernon			x	x			B			
Moore Br.	P	3.0	Mouth	34,35N,33W	Vernon			x	x			B			
Moore Br.	C	2.3	34,35N,33W	33,35N,33W	Vernon			x	x			B			
Moreau R.	P	37.0	Mouth	1,43N,13W	Cole			x	x			A	x		
Morgan Cr.	C	1.5	Mouth	17,43N,14W	Cole			x	x			B			
Mormon Fk.	C	21.2	Mouth	19,42N,32W	Bates			x	x			B			
Morris Br.	C	1.0	Mouth	12,49N,7W	Callaway			x	x			B			
Morris Hollow	C	1.7	Mouth	17,22N,16W	Ozark			x	x			B			
Moss Br.	C	2.4	Mouth	16,66N,37W	Nodaway			x	x			B			
Moss Cr.	P	13.7	Mouth	34,52N,25W	Carroll			x	x			B			
Moss Hollow	C	1.0	Mouth	Sur 1963,42N,5E	Jefferson			x	x			B			
Mossy Cr.	C	0.2	Mouth	07,40N,21W	Benton			x	x			B			
Mound Br.	C	8.9	Mouth	13,40N,31W	Bates			x	x			B			
Mound Cr.	C	4.0	Mouth	7,56N,23W	Livingston			x	x			B			
Mountain Cr.	P	6.8	Mouth	23,35N,17W	Laclede			x	x			B			
Mouse Cr.	C	1.5	Mouth	22,47N,32W	Jackson			x	x			B			
Mozingo Cr.	C	5.1	Mouth	13,64N,35W	Nodaway			x	x			B	x		
Mud Cr.	C	17.5	Mouth	20,55N,13W	Monroe	Randolph		x	x			B			
Mud Cr.	C	4.3	Mouth	22,26N,7E	Butler			x	x			B			
Mud Cr.	C	1.3	Mouth	08,34N,04E	St. Francois			x	x			B			
Mud Cr.	P	4.5	36,56N,26W	23,55N,26W	Caldwell			x	x			B			
Mud Cr.	C	6.7	23,55N,26W	18,54N,26W	Caldwell	Ray		x	x			B			
Mud Cr.	C	1.5	Mouth	6,51N,15W	Howard			x	x			B			
Mud Cr.	C	1.5	Mouth	5,45N,13W	Cole			x	x			B			
Mud Cr. Ditch	P	3.5	28,56N,25W	36,56N,26W	Livingston	Caldwell		x	x			B			
Mud Ditch	C	9.0	Mouth	11,23N,15E	New Madrid			x	x			B			
Muddy Cr.	C	2.8	Mouth	19,38N,30W	Vernon	Bates		x	x			B			
Muddy Cr.	C	3.0	Mouth	Sur 3017,39N,7E	Jefferson			x	x					x	
Muddy Cr.	C	5.2	Mouth	11,65N,37W	Nodaway			x	x			B			
Muddy Cr.	C	6.6	31,58N,20W	05,58N,20W	Linn			x	x			B			
Muddy Cr.	C	3.7	Mouth	21,59N,26W	Daviess			x	x			B	x		
Muddy Cr.	C	9.7	Mouth	27,60N,30W	Daviess	DeKalb		x	x			B			
Muddy Cr.	P	42.0	Mouth	22,66N,23W	Grundy	Mercer		x	x			B	x		
Muddy Cr.	C	5.7	Mouth	31,58N,20W	Linn			x	x			B			
Muddy Cr.	C	33.1	Mouth	14,61N,22W	Livingston	Sullivan		x	x			B			
Muddy Cr.	P	62.2	Mouth	17,45N,23W	Pettis			x	x			B			
Muddy Cr.	C	10.4	17,45N,23W	34,45N,24W	Pettis	Johnson		x	x			B	x		
Muddy Cr.	C	9.0	Mouth	22,52N,21W	Saline			x	x			B			
Muddy Fk.	C	8.4	Mouth	35,54N,31W	Clay			x	x			B	x		
Muddy Shawnee Cr.	P	2.5	8,33N,13E	19,33N,13E	Cape Girardeau			x	x			B			

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Muddy Shawnee Cr.	C	2.6	19,33N,13E	31,33N,13E	Cape Girardeau			x	x			B			
Mulberry Cr.	C	10.3	Mouth	33,41N,33W	Bates			x	x			B	x		
Mulberry Cr.	C	5.4	Mouth	04,34N,29W	Vernon			x	x			B			
Mulkey Cr.	C	5.0	Mouth	28,48N,25W	Johnson			x	x			B			
Muncas Cr.	P	4.0	Mouth	4,53N,16W	Chariton			x	x			B			
Muncas Cr.	C	8.8	4,53N,16W	6,54N,15W	Randolph			x	x			B			
Murphy Cr.	C	4.2	Mouth	8,36N,14W	Camden			x	x			B			
Musco Cr.	P	1.5	Mouth	26,34N,6E	Madison			x	x			B			
Musco Cr.	C	1.2	26,34N,6E	22,34N,6E	Madison			x	x				x		
Mussel Fk.	C	29.0	18,58N,17W	2,62N,18W	Macon	Sullivan		x	x			B		x	
Mussel Fork Cr.	P	58.0	Mouth	18,58N,17W	Chariton	Macon		x	x			B			
Mutton Hollow	P	2.5	Mouth	13,31N,20W	Greene			x	x			B			
Myatt Cr.	C	12.0	State Line	5,22N,7W	Howell			x	x			B			
N. Ashley Cr.	P	0.7	Mouth	34,32N,7W	Dent			x	x			B			
N. Ashley Cr.	C	9.9	Mouth	34,32N,8W	Dent	Texas		x	x			B			
N. Blackbird Cr.	C	18.1	Mouth	19,66N,18W	Putnam			x	x			B	x		
N. Bridges Cr.	C	4.6	17,22N,11W	2,22N,11W	Ozark			x	x			B			
N. Cobb Cr.	P	6.7	Mouth	2,33N,15W	Laclede			x	x			B			
N. Deepwater Cr.	C	5.4	Mouth	35,41N,29W	Henry	Bates		x	x			B			
N. Dry Sac R.	P	5.1	Mouth	22,31N,22W	Polk	Greene		x	x			B			
N. Dry Sac R.	C	4.8	9,31N,22W	19,31N,21W	Greene			x	x			B			
N. Elkhorn Cr.	P	4.4	Mouth	14,23N,31W	McDonald			x	x			B			
N. Fabius R.	P	92.0	Mouth	26,67N,14W	Marion	Schuyler	x	x	x			B	x	x	
N. Fabius R.	C	1.0	26,67N,14W	State Line	Schuyler			x	x			B			
N. Fk. Batts Cr.	C	1.0	Mouth	18,52N,16W	Howard			x	x			B			
N. Fk. Beaver Cr.	C	2.6	Mouth	33,30N,12W	Wright			x	x			B			
N. Fk. Blackwater R.	C	12.8	12,46N,27W	12,47N,28W	Johnson			x	x			B	x		
N. Fk. Bratten Spring Cr.	C	1.6	Mouth	13,22N,14W	Ozark			x	x			B			
N. Fk. Buffalo Cr.	P	2.6	20,24N,1E	18,24N,1E	Ripley			x	x			B			
N. Fk. Buffalo Cr.	C	5.9	18,24N,1E	21,24N,1W	Ripley			x	x			B			
N. Fk. Charrette Cr.	C	6.3	24,46N,02W	34,47N,02W	Warren			x	x			B			
N. Fk. Cuivre R.	P	25.1	Mouth	24,51N,3W	Lincoln	Pike		x	x			A	x		
N. Fk. Cuivre R.	C	10.0	24,51N,3W	28,52N,3W	Pike			x	x			B			
N. Fk. Finney Cr.	C	3.6	17,49N,21W	4,49N,21W	Saline			x	x			B			
N. Fk. Fourche a Renault Cr.	C	2.5	23,37N,1E	30,37N,2E	Washington			x	x			B			
N. Fk. Fourche Cr.	P	3.0	Mouth	4,22N,1E	Ripley			x	x			B			
N. Fk. Fourche Cr.	C	5.5	Hwy. 142	19,23N,1E	Ripley			x	x			B			
N. Fk. Grindstone Cr.	C	1.8	Mouth	16,48N,12W	Boone			x	x			B	x		
N. Fk. Hollow	C	1.5	Mouth	7,26N,4E	Butler			x	x			B			
N. Fk. Jones Cr.	P	0.5	Mouth	15,41N,03E	Jefferson			x	x			B			
N. Fk. M. Fabius R.	C	28.2	Mouth	21,66N,14W	Scotland	Schuyler		x	x			B			
N. Fk. N. Fabius R.	C	9.0	Mouth	2,66N,13W	Scotland			x	x			B			
N. Fk. S. Fabius R.	C	39.1	29,62N,11W	5,64N,14W	Knox	Schuyler		x	x			B			
N. Fk. Salt R.	P	84.9	Mouth	2,62N,14W	Monroe	Adair	x	x	x			B	x	x	
N. Fk. Salt R.	C	17.2	2,62N,14W	12,64N,15W	Adair	Schuyler		x	x			B			
N. Fk. Spring Cr.	C	2.5	23,26N,10W	7,26N,10W	Howell			x	x			B			
N. Fk. Spring R.	P	17.4	Mouth	6,29N,32W	Jasper			x	x			B	x		

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N. Fk. Spring R.	C	55.9	6,29N,32W	20,30N,28W	Jasper	Dade		x	x			B		x	
N. Fk. Web Cr.	P	1.9	Mouth	31,29N,2E	Reynolds			x	x			B			
N. Fk. Web Cr.	C	3.0	31,29N,2E	34,29N,1E	Reynolds			x	x			B			
N. Flat Cr.	C	3.5	Mouth	27,44N,23W	Pettis			x	x			B			
N. Indian Cr.	P	5.2	24,24N,31W	36,25N,30W	Newton			x	x			B			
N. Linn Cr.	C	1.7	Mouth	36,66N,9W	Clark			x	x			B			
N. Moreau Cr.	P	47.9	Mouth	4,44N,16W	Cole	Moniteau		x	x			A		x	
N. Mud Cr.	C	6.2	Mouth	6,55N,26W	Caldwell			x	x			B			
N. Pr. Beaverdam Cr.	C	3.0	Mouth	19,25N,4E	Ripley			x	x			B			
N. Prong Jacks Fk.	P	6.8	29,28N,7W	11,28N,8W	Texas			x	x			B			
N. Prong Jacks Fk.	C	7.0	11,28N,8W	25,29N,9W	Texas			x	x			B			
N. Prong L. Black R.	P	3.2	9,24N,3E	32,25N,3E	Ripley			x	x			B			
N. Prong L. Black R.	C	12.2	32,25N,3E	35,26N,2E	Ripley	Carter		x	x			A			
N. Wyaconda R.	P	16.9	26,65N,9W	18,66N,10W	Clark	Scotland		x	x			B			
N. Wyaconda R.	C	9.2	18,66N,10W	31,67N,11W	Scotland			x	x			B			
Nance Cr.	C	0.5	Mouth	15,24N,14W	Ozark			x	x			B			
Narrows Cr.	C	2.6	Mouth	7,56N,13W	Macon			x	x			B			
Nations Cr.	P	4.5	Mouth	15,34N,9E	Perry			x	x			B			
Nations Cr.	C	2.0	15,34N,9E	8,34N,9E	Perry			x	x					x	
Natural Bridge Holl.	C	1.8	Mouth	17,22N,26W	Barry			x	x					x	
Naylor Cr.	C	1.0	Mouth	7,51N,34W	Platte			x	x			B			
Neals Cr.	C	3.2	Mouth	16,34N,1W	Iron			x	x			B			
New #7 Chute	C	1.6	35,23N,16E	6,22N,17E	Mississippi		x	x	x			B			
New Franklin Ditch	P	6.3	6,16N,12E	23,17N,12E	Pemiscot			x	x			B			
New Hope Cr.	C	5.5	Mouth	31,54N,30W	Clay			x	x			B			
Newtonia Br.	P	1.4	Mouth	1,25N,30W	Newton			x	x			B			
Niangua R.	P	5.7	Mouth	19,37N,17W	Camden			x	x			A		x	
Niangua R.	C	6.8	19,37N,17W	19,37N,17W	Camden			x	x			A		x	
Niangua R.	P	5.0	Mouth	2,36N,18W	Camden			x	x			B			
Niangua R.	P	25.0	Dallas County Line	11,35N,18W	Dallas			x	x	x		A		x	
Niangua R.	P	6.0	11,35N,18W	Bennett Spring Cr.	Dallas			x	x	x	x	A		x	
Niangua R.	P	56.0	Bennett Spr Cr.	33,32N,18W	Dallas	Webster		x	x	x		A		x	
Nichols Cr.	C	4.6	Mouth	17,60N,37W	Holt			x	x			B			
Nishnabotna R.	P	10.2	Mouth	State Line	Atchison		x	x	x			B		x	x
No Cr.	P	28.7	Mouth	14,62N,23W	Livingston	Grundy		x	x			B			
No. 13 Elk Chute	C	2.3	Mouth	35,19N,11E	Pemiscot			x	x			B			
No. 3 Island Chute	P	8.3	6,25N,18E	29,25N,18E	Mississippi			x	x			B			
Noblett Cr.	P	2.4	Mouth	Noblett Lake Dam	Douglas			x	x			B			
Noblett Cr.	P	7.0	24,26N,11W	9,26N,10W	Douglas	Howell		x	x			B			
Noblett Cr.	C	1.2	9,26N,10W	3,26N,10W	Howell			x	x			B			
Nodaway R.	P	59.3	Mouth	State Line	Andrew	Nodaway	x	x	x			B		x	
Noix Cr.	P	1.9	Mouth	19,54N,1W	Pike			x	x			B			
Noix Cr.	C	4.6	19,54N,1W	3,53N,2W	Pike			x	x			B			
Norborne Drainage Ditch	P	5.1	34,52N,25W	21,52N,26W	Carroll	Ray		x	x			B			
Norman Cr.	C	7.7	Mouth	08,36N,06W	Phelps			x	x			B			
Norris Cr.	C	4.0	Mouth	33,44N,27W	Henry			x	x			B			
North Branch Wilsons Cr.	P	3.8	29,29N,22W	16,29N,22W	Greene			x	x			B			

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North Cut Ditch	P	24.8	Mouth	3,28N,14E	New Madrid	Scott	x	x	x			B	x		
North Cut Ditch	C	2.3	3,28N,14E	35,29N,14E	Scott		x	x	x			B	x		
North Fk.	C	1.5	Mouth	16,36N,2E	Washington			x	x			B			
North Fork R.	P	23.9	Mouth	2,24N,12W	Ozark		x	x	x		x	A	x		
North Fork R.	P	31.3	34,25N,11W	17,27N,11W	Douglas		x	x	x	x		A	x		
North Fork R.	C	8.0	17,27N,11W	23,28N,12W	Douglas	Texas		x	x			B			
North R.	C	8.7	26,60N,11W	13,60N,12W	Knox			x	x					x	
North R.	P1	4.0	Mouth	8,58N,5W	Marion			x	x			B	x		
North R.	P	49.0	8,58N,5W	33,59N,10W	Marion	Shelby		x	x			B	x		
North R.	C	12.8	33,59N,10W	26,60N,11W	Shelby	Knox		x	x			B	x		
Northeast Br.	P	1.0	Mouth	27,39N,1W	Washington			x	x			B			
Northeast Br.	C	1.3	27,39N,1W	34,39N,1W	Washington			x	x			B			
Norvey Cr.	C	9.3	Mouth	9,66N,34W	Nodaway			x	x			B			
Nulls Cr.	C	5.8	Mouth	15,50N,2W	Lincoln			x	x			B			
Off Davis Hollow	C	3.5	Mouth	29,22N,26W	Barry			x	x			A			
Old Bland Cr.	C	2.0	Mouth	8,41N,6W	Gasconade			x	x			B			
Old Ch. L. Tarkio Cr.	P	5.3	Mouth	22,61N,39W	Holt			x	x			B			
Old Ch. L. Tarkio Cr.	C	8.3	22,61N,39W	20,62N,39W	Holt			x	x			B			
Old Ch. Nishnabotna R.	P	13.7	30,64N,41W	1,65N,42W	Atchison			x	x			B			
Old Ch. Nishnabotna R.	C	3.0	1,65N,42W	25,66N,42W	Atchison			x	x			B			
Old Ch. St. Francis R.	P	4.5	Mouth	34,22N,8E	Dunklin			x	x			B			
Old Ch. St. Francis R.	C	8.0	32,22N,8E	15,22N,8E	Dunklin			x	x			B			
Old Chan. Chariton R.	C	14.6	34,65N,16W	34,66N,16W	Putnam	Schuyler		x	x			B			
Old Chan. Chariton R.	C	2.0	Mouth	32,56N,16W	Chariton			x	x			B			
Old Chan. Chariton R.	P	14.5	Mouth	9,52N,18W	Chariton			x	x			B			
Old Chan. Chariton R.	C	11.0	9,52N,18W	29,53N,18W	Chariton			x	x			B			
Old Chan. Grand R.	C	3.1	12,58N,27W	35,59N,27W	Daviess			x	x			B			
Old Chan. Grand R.	C	2.5	Mouth	18,57N,24W	Livingston			x	x			B			
Old Chan. Grand R.	P	15.2	Mouth	12,58N,26W	Daviess			x	x			B			
Old Chan. Grand R.	C	1.5	20,57N,23W	29,57N,23W	Livingston			x	x			B			
Old Chan. Grand R.	C	5.3	7,56N,21W	2,56N,22W	Livingston			x	x			B			
Old Chan. Grand R.	C	4.0	26,57N,23W	26,57N,23W	Livingston			x	x			B			
Old Chan. Hubble Cr.	C	2.9	Mouth	11,29N,12E	Scott	Cape Girardeau		x	x			B			
Old Chan. Little R.	C	15.4	33,20N,11E	3,20N,12E	Pemiscot			x	x			B			
Old Chan. Little R.	P	47.2	26,22N,12E	2,27N,12E	New Madrid	Scott		x	x			B			
Old Chan. Little R.	P	4.3	11,27N,12E	32,28N,12E	Scott			x	x			B			
Old Chan. Mud Cr.	P	3.0	Mouth	29,56N,25W	Livingston			x	x			B			
Old Chan. Nodaway R.	C	10.0	Mouth	35,62N,37W	Andrew	Holt		x	x			B			
Old Chan. Nodaway R.	C	1.2	Mouth	11,66N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	2.0	Mouth	1,66N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	1.5	Mouth	23,66N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	1.0	Mouth	27,66N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	2.5	4,65N,37W	34,66N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	3.7	8,65N,37W	5,65N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	2.5	Mouth	17,65N,37W	Nodaway			x	x			B			
Old Chan. Nodaway R.	C	2.8	Mouth	30,65N,37W	Nodaway			x	x			B			

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Old Chan. Nodaway R.	C	1.0	1,59N,37W	1,59N,37W	Holt	Andrew		x	x			B			
Old Chan. Platte R.	C	3.4	Mouth	16,56N,34W	Buchanan			x	x			B			
Old Chan. Platte R.	C	2.2	Mouth	35,57N,34W	Buchanan			x	x			B			
Old Chan. Platte R.	C	4.0	21,57N,34W	4,57N,34W	Buchanan			x	x			B			
Old Chan. Platte R.	C	5.0	4,57N,34W	28,58N,34W	Buchanan			x	x			B			
Old Chan. Platte R.	C	1.0	34,57N,34W	27,57N,34W	Buchanan			x	x			B			
Old Chan. Thompson R.	C	1.2	2,61N,25W	35,62N,25W	Grundy			x	x			B			
Old Chan. Thompson R.	C	2.7	32,63N,25W	29,63N,25W	Grundy			x	x			B			
Old Chan. Thompson R.	C	1.6	8,62N,25W	5,62N,25W	Grundy			x	x			B			
Old Chan. Thompson R.	C	8.4	34,62N,25W	8,62N,25W	Grundy			x	x			B			
Old Chan. Thompson R.	C	3.6	9,57N,24W	4,57N,24W	Livingston			x	x			B			
Old Chan. Wakenda Cr.	P	3.0	6,52N,23W	1,52N,24W	Carroll			x	x			B			
Old Chan. Weldon R.	C	4.0	Mouth	20,62N,24W	Grundy			x	x			B			
Old Kings Lake Cr.	P	3.2	Sur 1724, 50N,2E	35,51N,2E	Lincoln			x	x			B			
Old Kings Lake Cr.	PI	6.2	Mouth	Sur 1724,50N,2E	Lincoln			x	x			B			
Old Kings Lake Cr.	C	7.3	35,51N,2E	3,51N,2E	Lincoln			x	x			B			
Old Mines Cr.	P	6.6	Mouth	Sur 3039,38N,2E	Washington			x	x			A			
Old Mines Cr.	C	1.0	Sur 3039,38N,2E	Sur 3040,38N,2E	Washington			x	x			B			
Old R. (Slough Miss.)	P	9.2	Mouth	18,37N,10E	Ste. Genevieve			x	x			B			
Old Town Br.	C	7.3	Mouth	14,36N,31W	Vernon			x	x			B			
Olive Br.	C	1.0	Mouth	17,46N,20W	Pettis			x	x			B			
Omete Cr.	P	3.5	Mouth	15,35N,12E	Perry			x	x			B			
Omete Cr.	C	1.2	15,35N,12E	22,35N,12E	Perry			x	x			B			
One Hundred and Two R.	P	79.7	Mouth	State Line	Buchanan	Nodaway	x	x	x			B	x	x	
Open Hollow	C	0.8	Mouth	16,28N,4W	Shannon			x	x			B			
Opossum Cr.	C	2.5	Mouth	36,30N,11W	Texas			x	x			B			
Opossum Cr.	C	1.5	Mouth	31,40N,3W	Crawford			x	x			B			
Opossum Cr.	C	6.4	Mouth	28,30N,30W	Jasper			x	x			B			
Opossum Cr.	P	1.9	Mouth	12,30N,9E	Bollinger			x	x			B			
Opossum Cr.	C	2.2	12,30N,9E	11,30N,9E	Bollinger			x	x			B			
Osage Fk.	P	69.0	Mouth	26,30N,17W	Laclede	Webster		x	x	x		A	x		
Osage R.	P	81.9	Mouth	Bagnell Dam	Osage	Miller	x	x	x			A	x		
Osage R.	P	50.7	Mouth	33,38N,30W	St. Clair	Vernon	x	x	x			A	x		
Otter Cr.	C	37.6	Mouth	8,56N,12W	Monroe	Shelby		x	x			B			
Otter Cr.	C	2.2	Mouth	22,24N,16W	Ozark			x	x			B			
Otter Cr.	P	6.0	Mouth	18,27N,6E	Wayne			x	x			B			
Otter Cr.	C	18.0	18,27N,6E	18,28N,4E	Wayne			x	x			B			
Otter Cr.	C	2.5	Mouth	11,56N,27W	Caldwell			x	x			B			
Otter Cr.	C	3.0	Mouth	31,46N,18W	Cooper			x	x				x		
Otter Slough Ditch	P	4.0	12,23N,8E	19,24N,9E	Stoddard			x	x			B			
Otter Slough Ditch	P	7.3	Mouth	3,24N,13E	New Madrid			x	x			B			
Ottery Cr.	P	6.9	Mouth	14,34N,1E	Reynolds	Iron		x	x			B			
Ottery Cr.	C	1.8	14,34N,1E	12,34N,1E	Iron			x	x			B			
Owens Cr.	C	3.2	Mouth	21,43N,32W	Cass			x	x			B			
Owens Cr.	C	3.7	Mouth	12,42N,8W	Osage			x	x			B			
Owl Cr.	C	2.0	Mouth	11,36N,4E	St. Francois			x	x			B			

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Owl Cr.	C	3.3	Mouth	27,49N,28W	Lafayette			x	x					x	
Owl Cr.	C	4.8	Mouth	24,54N,35W	Platte			x	x						
Owl Cr.	C	2.0	Mouth	3,47N,11W	Callaway			x	x					x	
P.D. Cr.	C	0.1	Mouth	28,40N,21W	Benton			x	x			B			
Painter Br.	C	3.2	Mouth	33,48N,20W	Pettis			x	x			B			
Palmer Cr.	P	12.2	Mouth	9,53N,19W	Chariton			x	x			B			
Palmer Cr.	C	2.8	9,53N,19W	33,54N,19W	Chariton			x	x			B			
Panther Cr.	C	8.0	Mouth	15,44N,29W	Johnson			x	x			B			
Panther Cr.	C	12.6	Mouth	14,39N,29W	Bates			x	x			B		x	
Panther Cr.	C	9.7	Mouth	13,35N,24W	St. Clair	Polk		x	x			B			
Panther Cr.	P	2.9	Mouth	13,32N,17W	Webster	Laclede		x	x			B			
Panther Cr.	C	0.5	13,32N,17W	14,32N,17W	Laclede			x	x			B			
Panther Cr.	P	3.1	Mouth	36,32N,10E	Cape Girardeau	Bollinger		x	x			B			
Panther Cr.	C	1.2	36,32N,10E	2,31N,10E	Bollinger			x	x			B			
Panther Cr.	P	9.3	Mouth	29,29N,18W	Webster			x	x			B			
Panther Cr.	C	2.3	Mouth	18,28N,11W	Texas			x	x			B			
Panther Cr.	C	4.8	Mouth	33,64N,30W	Gentry			x	x			B			
Panther Cr.	C	5.0	Mouth	28,57N,26W	Caldwell			x	x					x	
Panther Cr.	P	3.5	Mouth	14,64N,26W	Harrison			x	x			B			
Panther Cr.	C	6.8	14,64N,26W	36,65N,27W	Harrison			x	x			B			
Panther Hollow	C	1.5	Mouth	3,27N,07W	Howell			x	x			B			
Papoose Cr.	C	0.5	Mouth	LG 319,40N,2E	Washington			x	x			B		x	
Paris Br.	C	3.0	Mouth	31,50N,1W	Lincoln			x	x					x	
Parker Br.	P	3.4	Mouth	2,39N,32W	Bates			x	x			B			
Parker Br.	C	2.6	26,33N,3W	15,33N,3W	Reynolds			x	x			B			
Parker Hollow	P	2.2	Mouth	20,32N,6W	Dent			x	x		x	B			
Parks Cr.	P	3.0	Mouth	30,32N,15W	Laclede	Wright		x	x			B			
Parks Cr.	C	2.4	30,32N,15W	6,31N,15W	Wright			x	x			B			
Parson Cr.	P	15.0	Mouth	23,58N,22W	Livingston	Linn		x	x			B		x	
Parson Cr.	C	14.6	23,58N,22W	31,60N,21W	Linn			x	x			B			
Pass Br.	C	3.2	Mouth	3,50N,23W	Saline			x	x			B			
Patterson Cr.	C	1.8	Mouth	35,33N,4E	Iron			x	x			B			
Patterson Cr.	P	3.5	State Line	11,22N,34W	McDonald		x	x	x			B			
Patton Br.	C	5.0	Mouth	26,33N,29W	Barton			x	x			B			
Pea Ridge Cr.	P	1.5	Mouth	2,29N,22W	Greene			x	x			B		x	
Peachtree Fk.	P	2.0	Mouth	5,29N,4E	Wayne			x	x			B			
Peachtree Fk.	C	3.2	5,29N,4E	36,30N,3E	Wayne			x	x			B			
Pearson Cr.	P	8.0	Mouth	5,29N,20W	Greene			x	x			A			
Peavine Cr.	C	1.7	Mouth	11,40N,7W	Maries			x	x			B			
Peavine Cr.	C	3.7	Mouth	20,48N,24W	Johnson			x	x			B			
Pecaut Hollow	C	1.5	Mouth	19,35N,10E	Perry			x	x			B			
Peckout Hollow	C	1.8	Mouth	9,25N,20W	Christian			x	x			B			
Peddler Cr.	P	1.5	Mouth	28,64N,31W	Gentry			x	x			B			
Peddler Cr.	C	3.0	28,64N,31W	16,64N,31W	Gentry			x	x			B		x	
Pedelo Cr.	P	0.5	Mouth	7,27N,19W	Christian			x	x			B			
Pedelo Cr.	C	1.0	7,27N,19W	6,27N,19W	Christian			x	x			B			
Pedlar Cr.	C	5.4	Mouth	23,61N,36W	Andrew			x	x			B			

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Peers Slough	C	3.0	Mouth	27,45N,2W	Warren			x	x			B			
Peggy Br	P	1.3	Mouth	32,43N,7W	Osage			x	x			B			
Peggy Br.	C	0.5	32,43N,7W	5,42N,7W	Osage			x	x			B			
Peno Cr.	C	14.4	Mouth	32,54N,3W	Pike			x	x	x		B			
Pepper Cr.	C	2.8	Mouth	33,44N,23W	Pettis			x	x			B			
Perche Cr.	C	23.7	5,49N,13W	19,52N,13W	Boone	Randolph		x	x			A	x		
Perche Cr.	PI	11.3	Mouth	29,48N,13W	Boone			x	x			B	x		
Perche Cr.	P	17.5	29,48N,13W	5,49N,13W	Boone			x	x			B	x		
Perkins Br.	P	1.5	Mouth	12,27N,6E	Wayne			x	x			B			
Perkins Cr.	C	3.0	36,30N,8E	24,30N,8E	Bollinger			x	x			B			
Perkins Cr.	P	8.5	Mouth	36,30N,8E	Bollinger			x	x			B			
Peruque Cr.	PI	9.6	Mouth	9,47N,3E	St. Charles			x	x			B	x		
Peruque Cr.	P	10.3	9,47N,3E	Lake St. Louis Dam	St. Charles			x	x			B	x		
Peruque Cr.	P	4.0	Mouth	25,47N,1E	St. Charles			x	x			B	x		
Peruque Cr.	C	10.9	25,47N,1E	23,47N,1W	St. Charles	Warren		x	x			B	x		
Peters Br.	C	1.5	Mouth	13,29N,5E	Wayne			x	x			B			
Peters Cr.	C	3.5	Mouth	22,29N,8W	Texas			x	x			B			
Peters Cr.	C	1.0	Mouth	36,32N,6E	Madison			x	x			B			
Petite Saline Cr.	P	21.0	Mouth	24,48N,17W	Moniteau	Cooper		x	x			A	x		
Petite Saline Cr.	C	28.0	24,48N,17W	26,46N,18W	Cooper			x	x			B	x		
Pettis Cr.	C	5.3	Mouth	9,31N,30W	Barton			x	x			B			
Pickeral Cr.	P	3.3	Mouth	26,29N,24W	Greene			x	x			B			
Pickeral Cr.	C	0.5	26,29N,24W	26,29N,24W	Greene			x	x				x		
Pickle Cr.	P	7.8	Mouth	19,36N,7E	Ste. Genevieve			x	x			B			
Pierce Cr.	P	2.4	Mouth	19,41N,2E	Franklin			x	x			B			
Pierce Cr.	C	2.8	19,41N,2E	31,41N,2E	Franklin			x	x			B			
Pierre Fleche Cr.	C	5.5	Mouth	15,50N,19W	Saline			x	x			B			
Pigeon Cr.	C	1.2	State Line	11,21N,13W	Ozark			x	x			B			
Pigeon Cr.	P	7.6	Montank Spring	8,32N,7W	Dent			x	x			A			
Pigeon Cr.	C	7.7	8,32N,7W	34,33N,8W	Dent	Texas		x	x			B			
Pigeon Cr.	C	7.2	Mouth	15,56N,35W	Buchanan			x	x			B			
Pigeon Roost Cr.	C	0.5	Mouth	18,54N,7W	Monroe			x	x			B			
Pike Cr.	P	3.8	Mouth	34,27N,1W	Carter			x	x	x		B			
Pike Cr.	C	25.6	34,27N,1W	27,27N,3W	Carter	Shannon		x	x				x		
Pike Cr.	C	6.0	15,24N,6E	30,25N,6E	Butler		x	x	x				x		
Pike Cr.	C	5.0	18,22N,6E	33,23N,6E	Butler		x	x	x			B			
Pike Cr. Ditch	C	4.0	State Line	18,22N,6E	Butler		x	x	x			B			
Pike Run	P	1.8	Mouth	32,38N,05E	St. Francois			x	x			B			
Pike Run	C	0.9	32,38N,05E	28,38N,05E	St. Francois			x	x			B			
Pike Slough	C	6.4	Mouth	28,24N,6E	Butler			x	x				x		
Pilot Br.	C	1.0	Mouth	10,44N,16W	Moniteau			x	x			B			
Pilot Grove Cr.	C	5.4	Mouth	11,60N,27W	Daviess			x	x			B			
Pin Oak Cr.	P	1.3	Mouth	7,43N,6W	Gasconade			x	x			B			
Pin Oak Cr.	C	1.8	17,43N,6W	Hwy. 50	Gasconade			x	x			B			
Pin Oak Cr.	C	2.0	Mouth	3,44N,3W	Franklin			x	x			B			
Pin Oak Cr.	C	3.0	Mouth	03,42N,04W	Franklin			x	x			B			
Pin Oak Cr.	C	1.6	Mouth	11,39N,07W	Maries			x	x			B			

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Pin Oak Cr.	C	3.0	Mouth	3,45N,28W	Johnson			x	x			B	x		
Pine Br.	C	3.6	Mouth	01,28N,08W	Texas			x	x			B			
Pine Cr.	P	1.5	Mouth	30,23N,12W	Ozark			x	x			B			
Pine Cr.	C	8.6	30,23N,12W	2,23N,13W	Ozark			x	x			B			
Pine Cr.	P	9.5	Mouth	5,27N,9W	Texas	Howell		x	x			B			
Pine Cr.	C	1.0	5,27N,9W	6,27N,9W	Howell			x	x			B			
Pine Hollow	C	4.0	Mouth	25,28N,5W	Shannon			x	x			B			
Pine Run	C	5.1	Mouth	26,25N,24W	Stone			x	x			B			
Pine Valley Cr.	C	6.9	Mouth	13,28N,1W	Carter	Reynolds		x	x			B			
Pinery Cr.	C	0.8	Mouth	21,39N,1E	Washington			x	x			B			
Pinery Cr.	C	1.0	Mouth	36,40N,1E	Washington			x	x			B			
Piney Br.	C	1.2	Mouth	25,36N,1W	Washington			x	x			B			
Piney Cr.	C	2.8	Mouth	22,23N,25W	Stone	Barry		x	x			B			
Piney Cr.	C	10.5	Mouth	Hwy. 160	Oregon			x	x					x	
Piney Cr.	C	1.5	Mouth	7,33N,6E	Madison			x	x			B			
Piper Cr.	P	5.3	Mouth	31,34N,22W	Polk			x	x			B			
Pipes Br.	C	2.0	Mouth	16,49N,15W	Howard			x	x			B			
Pippin Br.	P	3.0	26,37N,20W	28,37N,20W	Hickory			x	x			B			
Pippin Br.	P	1.0	Mouth	26,37N,20W	Hickory			x	x			B			
Platte R.	P	142.4	Mouth	State Line	Platte	Worth	x	x	x			B	x	x	
Plattin Cr.	P	19.9	Mouth	01,38N,05E	Jefferson	St. Francois		x	x			A	x		x
Plattin Cr.	C	3.5	31,39N,06E	8,38N,06E	Jefferson	St. Francois		x	x			B			
Pleasant Run Cr.	C	7.6	Mouth	28,34N,31W	Vernon			x	x			B			
Pleasant Valley Cr.	P	3.2	Mouth	14,39N,5W	Crawford			x	x			B			
Pleasant Valley Cr.	C	1.7	14,39N,5W	24,39N,5W	Crawford			x	x			B			
Plum Cr.	C	1.8	Mouth	2,33N,6E	Madison			x	x			B			
Pogue Cr.	C	2.5	Mouth	32,24N,28W	Barry			x	x			B			
Pointers Cr.	C	1.0	Mouth	31,43N,7W	Osage			x	x			B	x		
Pole Cat Slough	P	12.6	Mouth	2,18N,9E	Dunklin			x	x			B			
Pole Hollow	P	4.3	Mouth	25,42N,20W	Benton			x	x			B			
Polecat Cr.	C	4.0	Mouth	13,34N,26W	Cedar			x	x					x	
Polecat Cr.	C	11.1	Mouth	Hwy. 136	Harrison			x	x			B			
Pomme Cr.	P	1.8	Mouth	Sur 2991,43N,06E	Jefferson			x	x			B			
Pomme de Terre R.	P	21.8	Mouth	Pomme de Terre Dam	Hickory			x	x	x		A	x		
Pomme de Terre R.	P	69.1	Mouth	8,30N,18W	Polk	Webster		x	x			A	x		
Pond Cr.	P	4.0	Mouth	5,28N,23W	Greene			x	x			B			
Pond Cr.	P	1.3	Mouth	35,38N,3E	Washington			x	x			B			
Pond Cr.	C	1.0	Mouth	3,37N,3E	Washington			x	x			B			
Pond Cr.	C	3.0	Mouth	30,30N,33W	Jasper			x	x			B			
Pond Cr.	P	4.4	Mouth	11,29N,8E	Bollinger			x	x			B			
Pond Cr.	C	2.0	11,29N,8E	3,29N,8E	Bollinger			x	x			B			
Pond Fk.	P	4.2	Mouth	23,23N,16W	Ozark			x	x			B			
Pond Fk.	C	6.3	23,23N,16W	Taney Co. Line	Ozark			x	x			B			
Pond Spring Br.	P	2.6	Mouth	15,30N,08W	Texas			x	x			B			
Poney Cr.	P	3.9	Mouth	13,44N,33W	Cass			x	x			B			
Poney Cr.	C	8.3	13,44N,33W	State Line	Cass			x	x			B			
Poor Br.	C	3.0	Mouth	13,48N,3W	Montgomery			x	x			B			

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Possum Hollow	C	1.0	Mouth	12,38N,17W	Camden			x	x			B			
Possum Hollow	P	1.4	28,27N,7E	22,27N,7E	Wayne			x	x			B			
Possum Hollow	C	1.0	22,27N,7E	16,27N,7E	Wayne			x	x			B			
Possum Trot Hollow	P	2.0	Mouth	16,35N,2W	Crawford			x	x			B			
Possum Trot Hollow	C	1.0	16,35N,2W	21,35N,2W	Crawford			x	x			B			
Possum Walk Cr.	C	4.2	Mouth	18,21N,13W	Ozark			x	x			B			
Post Oak Cr.	P	3.3	Mouth	22,46N,26W	Johnson			x	x			B	x		
Potters Cr.	P	4.4	Mouth	16,28N,10W	Texas			x	x			B			
Potters Cr.	C	1.4	16,28N,10W	22,28N,10W	Texas			x	x			B			
Prairie Cr.	C	1.5	Mouth	1,39N,5W	Crawford			x	x			B			
Prairie Cr.	C	4.3	Mouth	3,27N,15W	Douglas			x	x			B			
Prairie Cr.	C	3.7	Mouth	12,52N,35W	Platte			x	x			B			
Prairie Cr.	C	3.5	Mouth	35,39N,22W	Benton			x	x			B			
Prairie Cr.	C	2.0	Mouth	36,39N,11W	Maries			x	x			B			
Prairie Cr.	C	4.1	Mouth	04,32N,12W	Texas	Laclede		x	x			B			
Prairie Fk.	P	2.9	Mouth	8,47N,6W	Montgomery			x	x			B			
Prairie Fk.	C	5.0	8,47N,6W	10,47N,7W	Montgomery	Callaway		x	x			B			
Prairie Fk.	C	0.8	Mouth	21,44N,3W	Franklin			x	x			B			
Prairie Fk.	C	3.9	Mouth	20,46N,9W	Callaway			x	x			B			
Prairie Hollow	P	6.8	Mouth	04,37N,18W	Camden			x	x			B			
Prairie Run Hollow	C	1.0	Mouth	25,25N,27W	Barry			x	x			B			
Price Br.	C	3.0	Mouth	34,34N,25W	Cedar			x	x			B			
Price Cr.	C	1.7	Mouth	27,40N,6W	Gasconade			x	x			B			
Prime Cr.	C	2.2	Mouth	31,46N,9W	Callaway			x	x			B			
Primrose Cr.	C	2.0	Mouth	22,38N,4E	St. Francois			x	x			B			
Profits Cr.	C	2.0	Mouth	24,42N,12W	Cole			x	x			B			
Province Br.	P	1.2	Mouth	2,29N,25W	Lawrence			x	x			B			
Pruett Cr.	P	1.7	Mouth	16,38N,5W	Crawford			x	x			B			
Pruett Cr.	C	1.2	16,38N,5W	9,38N,5W	Crawford			x	x			B			
Pryor Cr.	C	3.2	Mouth	08,37N,32W	Vernon			x	x			B			
Pucket Br.	C	1.2	Mouth	12,38N,1E	Washington			x	x			B			
Pump Hollow	C	2.0	Mouth	16,40N,2W	Crawford			x	x			B	x		
Punch Cr.	C	1.3	Mouth	6,31N,9E	Bollinger			x	x			B			
Puncheon Cr.	C	2.9	Mouth	36,44N,6W	Gasconade			x	x			B			
Purcett Br.	C	3.2	Mouth	05,35N,25W	St. Clair	Cedar		x	x			B			
Puzzle Cr.	C	12.5	Mouth	25,57N,17W	Chariton	Macon		x	x			B			
Pyatt Hollow	C	2.0	Mouth	13,36N,3W	Crawford			x	x			B			
Quick Cr.	P1	1.8	Mouth	Sur 2658,46N,5W	Montgomery			x	x			B			
Quick Cr.	C	2.0	Sur 2658,46N,5W	32,46N,5W	Montgomery			x	x			B	x		
Rabbit Hollow	C	1.5	Mouth	14,38N,1E	Washington			x	x			B			
Raccoon Cr.	C	3.7	Mouth	5,61N,25W	Grundy			x	x			B	x		
Raccoon Hollow	C	1.0	Mouth	16,24N,11W	Ozark			x	x			B			
Race Cr.	P	0.5	Mouth	21,37N,1E	Washington			x	x			B			
Ragan Br.	C	4.3	Mouth	20,36N,07W	Phelps			x	x			B			
Railey Cr.	C	7.4	Mouth	Reeds Spring	Stone			x	x			B			
Rainy Cr.	P	2.5	Mouth	7,39N,19W	Camden			x	x			A	x		
Rainy Cr.	C	1.5	7,39N,19W	13,39N,20W	Camden	Benton		x	x				x		

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Ramsey Br.	P	6.5	Mouth	33,31N,13E	Cape Girardeau			x	x			B	x		
Ramsey Br.	C	1.0	33,31N,13E	28,31N,13E	Cape Girardeau			x	x			B			
Ramsey Cr.	C	8.9	Mouth	Sur 1709(9), 52N,1E	Pike			x	x			B			
Ramsey Cr.	P	6.3	Mouth	20,29N,14E	Scott			x	x			B			
Ramsey Cr. Div. Chan.	P	3.0	Mouth	1,29N,13E	Scott			x	x			B			
Rattlesnake Cr.	C	3.0	Mouth	3,56N,25W	Livingston			x	x			B			
Red Oak Cr.	P	5.2	Mouth	28,42N,4W	Franklin	Gasconade		x	x			B			
Red Oak Cr.	C	10.0	28,42N,4W	16,41N,5W	Gasconade			x	x			B			
Reed Cr.	C	2.7	Mouth	11,37N,32W	Vernon			x	x			B			
Reese Fk.	C	7.0	Mouth	28,53N,12W	Monroe			x	x			B	x		
Reid Cr.	C	2.6	Mouth	5,38N,27W	St. Clair			x	x			B			
Reid Cr.	C	2.0	Mouth	Sur 1812,51N,2W	Lincoln			x	x			B			
Reid Cr.	C	2.3	Mouth	Sur 3093,35N,3E	Washington	Iron		x	x				x		
Reisobel Br.	C	1.2	Mouth	21,40N,6W	Gasconade			x	x			B			
Renfro Cr.	C	1.5	Mouth	14,49N,11W	Callaway			x	x			B			
Richland Cr.	C	0.5	Mouth	6,44N,6W	Gasconade			x	x			B			
Richland Cr.	C	4.3	Mouth	29,48N,9W	Callaway			x	x			B	x		
Richland Cr.	P	5.1	Mouth	Hwy. 87	Howard			x	x			B			
Richland Cr.	C	2.0	Hwy. 87	16,50N,17W	Howard			x	x			B			
Richland Cr.	P	8.7	13,45N,19W	17,44N,18W	Morgan			x	x			A	x		
Richland Cr.	C	10.0	17,44N,18W	22,43N,18W	Morgan			x	x			A	x		
Ricky Cr.	C	7.8	Mouth	14,39N,28W	St. Clair			x	x			B			
Riggin Br.	C	1.9	Mouth	21,60N,35W	Andrew			x	x			B			
Rings Cr.	P	5.2	Mouth	23,29N,4E	Wayne			x	x			A			
Rings Cr.	C	1.1	23,29N,4E	27,29N,4E	Wayne			x	x			B			
Rippee Cr.	P	4.5	Mouth	13,25N,15W	Douglas			x	x			B			
Rippee Cr.	C	2.0	13,25N,15W	14,25N,15W	Douglas			x	x			B			
Rising Cr.	P	1.2	Mouth	Sur 5616,44N,10W	Cole			x	x			B			
Rising Cr.	C	4.4	19,44N,10W	36,44N,11W	Cole			x	x			B	x		
Rivauz Cr.	PI	2.2	Mouth	21,44N,10W	Callaway			x	x			B			
Rivauz Cr.	C	3.5	21,44N,10W	8,44N,10W	Callaway			x	x			B			
River aux Vases	P	21.6	Mouth	12,36N,7E	Ste. Genevieve			x	x			A			
River aux Vases	C	7.1	12,36N,7E	27,36N,7E	Ste. Genevieve			x	x			B			
River des Peres	P	2.6	Mouth	Sur 1339,44N,6E	St. Louis City			x	x				x		
	P		Sur 1339,44N,6E	Sur 2037,45N,6E	St. Louis City			x	x				x		
Roach Lake Cr.	C	0.7	Mouth	30,57N,24W	Livingston			x	x			B			
Roaring R.	P	6.5	Mouth	27,22N,27W	Barry			x	x		x	A	x		
Roaring Springs	P	0.1	Mouth	35,33N,10W	Texas			x	x			B			
Roark Br.	C	1.3	Mouth	23,43N,14W	Cole			x	x			B	x		
Roark Cr.	C	2.7	Mouth	36,23N,22W	Taney			x	x		x	A	x		
Roark Cr.	C	4.0	36,23N,22W	15,23N,22W	Taney			x	x			A	x		
Roberts Br.	C	2.0	Mouth	5,54N,32W	Clinton			x	x			B			
Robinson Br.	C	2.0	Mouth	30,36N,29W	Vernon			x	x			B			
Robinson Creek	P	3.1	Mouth	Hwy B	Phelps			x	x			B			
Rock Br.	C	3.1	Mouth	25,36N,3W	Crawford			x	x			B			
Rock Br.	P	2.0	State Line	12,26N,34W	Newton			x	x			B			

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Rock Cr.	C	1.0	Mouth	19,43N,11W	Cole			x	x			A	x		
Rock Cr.	C	3.0	Mouth	24,33N,12W	Texas			x	x			B			
Rock Cr.	P	5.8	Mouth	Sur 2970,42N,5E	Jefferson			x	x			B	x		
Rock Cr.	C	3.0	Sur 2970,42N,5E Mouth	Sur 1974,43N,5E	Jefferson			x	x			A	x		
Rock Cr.	P	2.2	Mouth	30,64N,41W	Atchison			x	x			B			
Rock Cr.	C	19.0	30,64N,41W	17,66N,40W	Atchison			x	x			B			
Rock Cr.	P	2.6	36,22N,26W	24,22N,26W	Barry			x	x			B			
Rock Cr.	C	4.6	24,22N,26W	8,22N,26W	Barry			x	x			B			
Rock Cr.	P	0.8	Mouth	19,34N,7E	Madison			x	x			B			
Rock Cr.	C	2.0	Mouth	9,34N,7E	Madison	St. Francois		x	x			B			
Rock Cr.	P	2.9	Mouth	16,33N,5E	Madison			x	x			B			
Rock Cr.	C	1.1	16,33N,5E	17,33N,5E	Madison			x	x			B			
Rock Cr.	C	3.4	Mouth	31,53N,31W	Clay			x	x			B			
Rock Cr.	C	4.8	Mouth	34,62N,12W	Knox			x	x			B			
Rock Cr.	P	0.5	Mouth	9,45N,13W	Cole			x	x			B			
Rock Cr.	C	4.0	9,45N,13W	18,45N,13W	Cole			x	x			B	x		
Rock Enon Cr.	C	3.3	Mouth	14,43N,15W	Moniteau			x	x			B			
Rockhouse Cr.	P	2.8	Mouth	14,23N,26W	Barry			x	x			B			
Rockhouse Cr.	C	4.3	14,23N,26W	28,23N,26W	Barry			x	x			B			
Rocky Br.	C	3.2	Mouth	11,52N,33W	Clay			x	x			B			
Rocky Br.	C	1.6	Mouth	10,32N,10W	Texas			x	x					x	
Rocky Br.	C	0.4	Mouth	23,39N,02E	Washington			x	x			B			
Rocky Br.	C	1.7	Mouth	16,43N,16W	Moniteau			x	x			B			
Rocky Cr.	P	2.4	Mouth	6,28N,2W	Shannon			x	x			B			
Rocky Cr.	C	2.7	Mouth	7,28N,8E	Wayne	Bollinger		x	x			B			
Rocky Fk.	C	11.3	Mouth	36,50N,13W	Boone			x	x			B			
Rocky Fk.	C	0.1	Mouth	04,35N,01W	Washington			x	x			B			
Rocky Fk.	C	4.0	Mouth	19,53N,28W	Ray			x	x			B			
Rocky Ford. Cr.	P	3.0	Mouth	21,42N,18W	Morgan			x	x			B			
Rocky Hollow	C	1.2	Mouth	08,35N,29W	Vernon			x	x			B			
Rodgers Cr.	C	1.0	Mouth	7,39N,10W	Maries			x	x			B			
Rogers Cr.	C	9.6	Mouth	28,28N,02W	Carter			x	x			A			
Rollins Cr.	C	1.3	Mouth	16,38N,14W	Miller			x	x			B			
Rollins Cr.	C	7.0	Mouth	13,51N,29W	Ray			x	x					x	
Ross Cr.	P	3.0	Mouth	13,41N,21W	Benton			x	x			B			
Roth Cr.	C	1.8	Mouth	07,42N,01W	Franklin			x	x			B			
Roubidoux Cr.	P	4.0	Mouth	25,36N,12W	Pulaski			x	x		x	A	x		
Roubidoux Cr.	C	22.9	25,36N,12W	11,34N,12W	Pulaski			x	x	x		A	x		
Roubidoux Cr.	P	30.5	11,34N,12W	4,31N,11W	Pulaski	Texas		x	x	x		A	x		
Rubeneau Br.	C	1.8	Mouth	Sur 2115,37N,3E	Washington			x	x						
Rush Cr.	P	4.5	Mouth	22,51N,34W	Platte			x	x			B			
Rush Cr.	P	8.2	Mouth	5,51N,31W	Clay			x	x			A			
Rutledge Run	C	2.2	Mouth	15,35N,2E	Washington			x	x			B			
Rye Cr.	P	2.8	Mouth	23,41N,1E	Franklin			x	x			B			
Rye Cr.	C	1.0	23,41N,1E	26,41N,1E	Franklin			x	x			B			
S. Ashley Cr.	P	5.0	Mouth	8,31N,7W	Dent	Texas		x	x			B			
S. Ashley Cr.	C	2.0	9,31N,7W	18,31N,7W	Texas			x	x			B			

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S. Big Cr.	C	5.6	Mouth	Lake Viking Dam	Daviess			x	x			B			
S. Blackbird Cr.	C	13.0	Mouth	18,65N,18W	Putnam			x	x			B			
S. Bridges Cr.	C	4.0	Mouth	13,22N,11W	Ozark			x	x			B			
S. Brush Cr.	C	2.0	Mouth	12,53N,9W	Monroe			x	x			B			
S. Davis Cr.	C	4.6	Mouth	22,48N,27W	Lafayette			x	x			B			
S. Deepwater Cr.	C	11.9	Mouth	20,40N,29W	Bates			x	x			B			
S. Dry Sac R.	P	2.0	Mouth	3,29N,22W	Greene			x	x			B			
S. Dry Sac R.	C	4.2	3,29N,22W	5,29N,21W	Greene			x	x			A	x		
S. Fabius R.	P	80.6	Mouth	29,62N,11W	Marion	Knox	x	x	x			B			
S. Fk. Apple Cr.	P	5.5	Mouth	34,34N,10E	Cape Girardeau	Perry		x	x			B			
S. Fk. Apple Cr.	C	1.0	34,34N,10E	4,33N,10E	Perry			x	x			B			
S. Fk. Blackwater R.	P	5.7	Mouth	19,46N,27W	Johnson			x	x			B			
S. Fk. Blackwater R.	C	15.1	19,46N,27W	30,47N,28W	Johnson			x	x			B	x		
S. Fk. Bratten Spring Cr.	C	1.8	Mouth	19,22N,14W	Ozark			x	x			B			
S. Fk. Brush Cr.	C	5.5	Mouth	03,34N,24W	Polk			x	x			B			
S. Fk. Buffalo Cr.	P	2.0	Mouth	30,24N,1E	Ripley			x	x	x		B			
S. Fk. Buffalo Cr.	C	4.7	30,24N,1E	34,24N,1W	Ripley			x	x	x		B			
S. Fk. Capps Cr.	C	4.3	Mouth	27,25N,28W	Barry			x	x			B	x		
S. Fk. Clear Cr.	C	6.0	Mouth	21,65N,36W	Nodaway			x	x			B			
S. Fk. Gees Cr.	C	2.8	Mouth	2,59N,25W	Livingston			x	x			B			
S. Fk. Isle Du Bois Cr.	C	4.0	Mouth	36,39N,6E	Ste. Genevieve			x	x			A	x		
S. Fk. Jonca Cr.	C	2.0	8,36N,7E	18,36N,7E	Ste. Genevieve			x	x			B			
S. Fk. M. Fabius R.	P	14.8	22,64N,12W	31,65N,13W	Scotland	Schuyler		x	x			B			
S. Fk. M. Fabius R.	C	13.0	31,65N,13W	Hwy. 63	Schuyler			x	x			B			
S. Fk. N. Fabius R.	C	11.5	Mouth	27,67N,15W	Schuyler			x	x			B			
S. Fk. North R.	P	6.9	Mouth	13,57N,8W	Marion			x	x			B			
S. Fk. North R.	C	4.3	13,57N,8W	21,57N,8W	Marion			x	x			B			
S. Fk. Pomme de Terre R.	P	5.0	Mouth	25,30N,20W	Greene			x	x			A	x		
S. Fk. S. Fabius R.	P	7.9	29,62N,11W	9,62N,12W	Knox			x	x			B			
S. Fk. S. Fabius R.	C	18.3	9,62N,12W	13,63N,14W	Knox	Adair		x	x			B			
S. Fk. S. Grand R.	C	14.2	Mouth	34,44N,33W	Cass			x	x			B			
S. Fk. Saline Cr.	P	23.4	Mouth	27,35N,9E	Perry			x	x	x		B			
S. Fk. Saline Cr.	C	5.0	27,35N,9E	1,34N,8E	Perry	Ste. Genevieve		x	x			B			
S. Fk. Salt R.	P	9.3	Mouth	Audrain Co. Line	Monroe		x	x	x			B	x		
S. Fk. Salt R.	C	40.1	29,53N,8W	5,49N,8W	Monroe	Callaway		x	x			B	x		
S. Fk. Spring Cr.	C	1.5	Mouth	13,26N,10W	Howell			x	x			B			
S. Fk. Spring R.	P	4.2	State Line	26,22N,8W	Howell			x	x			B			
S. Fk. Spring R.	C	11.0	26,22N,8W	32,23N,8W	Howell			x	x			B			
S. Fk. Turkey Cr.	C	4.5	21,35N,25W	34,35N,25W	Cedar			x	x			A			
S. Fk. Weaubleau Cr.	C	7.3	Mouth	20,36N,24W	St. Clair			x	x			A			
S. Flat Cr.	C	0.9	27,43N,22W	27,43N,22W	Benton			x	x			B			
S. Flat Cr.	P	8.2	Mouth	27,43N,22W	Pettis	Benton		x	x			B			
S. Grand R.	P	66.8	Mouth	02,44N,33W	Henry	Cass		x	x			B	x		
S. Indian Cr.	P	8.7	Mouth	1,23N,30W	Newton	McDonald		x	x		x	B			
S. Moreau Cr.	P	21.1	1,43N,13W	29,43N,14W	Cole			x	x			A	x		
S. Moreau Cr.	C	10.2	29,43N,14W	7,42N,15W	Cole	Miller		x	x			A	x		
S. Moreau Cr.	C	6.5	7,42N,15W	36,42N,15W	Miller			x	x			B			

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S. Mud Cr.	C	3.8	Mouth	2,54N,27W	Ray			x	x				B		
S. Prong Beaverdam Cr.	C	7.2	Mouth	27,25N,3E	Ripley			x	x				B		
S. Prong Jacks Fk.	P	7.0	Mouth	21,28N,8W	Texas			x	x				B		
S. Prong Jacks Fk.	C	4.5	21,28N,8W	14,28N,9W	Texas			x	x				B		
S. Prong L. Black R.	P	5.5	Mouth	Hwy. 21	Ripley			x	x				B		
S. Prong L. Black R.	C	6.0	Hwy. 21	33,25N,2E	Ripley			x	x				B		
S. Rock Br.	C	3.2	Mouth	14,35N,3W	Crawford			x	x				B		
S. Spencer Cr.	C	9.3	Mouth	6,53N,4W	Ralls	Pike		x	x					x	
S. Spring Cr.	P	4.0	Mouth	23,25N,16W	Douglas			x	x				B		
S. Wyaconda R.	P	9.7	26,65N,9W	4,65N,10W	Clark	Scotland		x	x				B		x
S. Wyaconda R.	C	17.5	4,65N,10W	32,67N,12W	Scotland			x	x				B		
Sac R.	P	48.8	Mouth	Stockton Lake Dam	St. Clair	Cedar		x	x	x			A	x	
Sac R.	P	35.0	1,31N,26W	15,29N,24W	Dade	Greene		x	x	x			A	x	
Sac R.	C	3.5	15,29N,24W	19,29N,23W	Greene			x	x				B		
Sadler Br.	C	0.8	Mouth	17,35N,24W	Polk			x	x				B		
Salem Cr.	C	2.0	Mouth	26,37N,5E	St. Francois			x	x					x	
Salem Springs Cr.	C	1.0	Mouth	11,32N,17W	Laclede			x	x				B		
Saline Cr.	P	13.8	Mouth	10,41N,15W	Miller			x	x				A	x	
Saline Cr.	P	11.0	Mouth	13,36N,9E	Ste. Genevieve	Perry		x	x				A		
Saline Cr.	P	15.0	13,36N,9E	16,35N,8E	Ste. Genevieve			x	x	x			A		
Saline Cr.	C	4.0	16,35N,8E	11,35N,7E	Ste. Genevieve			x	x				B		
Saline Cr.	P	4.3	Mouth	32,35N,3E	Iron			x	x				B		
Saline Cr.	P	1.8	Mouth	Sur 3011,43N,5E	Jefferson			x	x				B		
Saline Cr.	C	2.3	Sur 3011,43N,5E	Sur 1331,43N,5E	Jefferson			x	x				B	x	
Saline Cr.	P	5.8	Mouth	12,33N,7E	Madison			x	x				B		
Saline Cr.	C	1.1	12,33N,7E	7,33N,7E	Madison			x	x				B		
Salley Br.	C	0.1	Mouth	27,39N,22W	Benton			x	x				B		
Sals Cr.	C	1.5	Mouth	14,29N,13E	Scott			x	x				B		
Sals Cr. Div. Chan.	C	2.7	Mouth	3,29N,13E	Scott			x	x				B		
Salt Br.	C	5.7	Mouth	35,53N,21W	Saline			x	x				B		
Salt Br.	C	7.2	Mouth	20,50N,22W	Saline			x	x				B		
Salt Cr.	C	5.0	Mouth	9,38N,26W	St. Clair			x	x				B		
Salt Cr.	C	14.9	Mouth	25,55N,20W	Chariton			x	x				B		
Salt Cr.	PI	3.0	Mouth	33,49N,15W	Howard			x	x				B		
Salt Cr.	C	10.0	33,49N,15W	31,50N,15W	Howard			x	x				B		
Salt Cr.	P	3.1	Mouth	6,49N,17W	Howard			x	x				B		
Salt Fk.	C	7.2	Mouth	2,51N,15W	Howard			x	x				B		
Salt Fk.	P	26.7	Mouth	28,51N,22W	Saline			x	x				B	x	
Salt Fk.	C	18.6	28,51N,22W	29,50N,24W	Saline	Lafayette		x	x				B		
Salt Pine Cr.	C	1.2	Mouth	5,38N,3E	Washington			x	x				B		
Salt Pond Cr.	P	3.6	Mouth	25,49N,23W	Saline			x	x				B		
Salt Pond Cr.	C	2.4	25,49N,23W	14,49N,23W	Saline			x	x				B		
Salt R.	PI	9.3	Re-Reg Dam	Cannon Dam	Ralls			x	x	x			A	x	x
Salt R.	PI	15.0	Mouth	Hwy. 79	Pike			x	x	x			A	x	
Salt R.	P	29.0	Hwy. 79	Re-Reg Dam	Pike	Ralls		x	x	x			A	x	x
Sampson Cr.	P	13.5	Mouth	19,62N,29W	Daviess	Harrison		x	x				B		

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Sampson Cr.	C	5.6	19,62N,29W	1,62N,30W	Gentry			x	x			B			
Sand Cr.	C	15.0	Mouth	12,43N,26W	Henry			x	x			B			
Sand Cr.	C	4.9	Mouth	11,64N,37W	Nodaway			x	x			B			
Sand Cr.	C	1.8	Mouth	34,36N,06E	St. Francois			x	x			B			
Sand Cr.	P	1.6	Mouth	18,42N,4E	Jefferson			x	x			B			
Sand Cr.	C	2.4	Mouth	36,65N,16W	Schuyler			x	x			B			
Sand Hollow	C	0.3	Mouth	24,31N,10W	Texas			x	x			B			
Sand Run	C	2.0	Mouth	24,48N,1W	Lincoln			x	x			B			
Sandy Cr.	C	7.0	Mouth	27,52N,2W	Lincoln	Pike		x	x			B			
Sandy Cr.	C	7.5	Mouth	Sur 1987,41N,5E	Jefferson			x	x			B			
Sandy Cr.	C	1.3	Mouth	1,34N,10E	Perry			x	x				x		
Sandy Cr.	P	2.4	Mouth	11,33N,11E	Cape Girardeau			x	x			B			
Sandy Cr.	C	0.5	11,33N,11E	3,33N,11E	Cape Girardeau			x	x			B			
Sandy Cr.	C	6.0	Mouth	23,51N,5W	Montgomery	Audrain		x	x			B			
Sandy Cr.	C	13.8	Mouth	25,50N,1E	Lincoln			x	x			B			
Sandy Cr.	C	11.6	Mouth	15,65N,25W	Harrison	Mercer		x	x			B			
Sandy Cr.	C	3.0	Mouth	19,66N,17W	Putnam			x	x			B			
Sanford Cr.	C	1.0	Mouth	4,43N,10W	Cole			x	x			B			
Sara Br.	C	2.5	Mouth	01,32N,18W	Webster			x	x			B			
Sardine Cr.	C	1.8	Mouth	2,29N,25W	Lawrence			x	x			B			
Sawmill Hollow	C	2.6	Mouth	17,24N,11W	Ozark			x	x			B			
Sawyer Cr.	P	5.5	Mouth	1,28N,20W	Greene			x	x			B			
Schawnee Spr. Br.	C	2.8	Mouth	5,34N,11E	Perry			x	x			B			
School Hollow Cr.	P	1.3	Mouth	08,41N,09W	Osage			x	x			B			
Schoolhouse Hollow	C	0.3	Mouth	19,31N,09W	Texas			x	x			B			
Schulte Cr.	P	0.5	Mouth	8,43N,5W	Gasconade			x	x			B			
Schultz Cr.	C	5.0	Mouth	10,32N,21W	Polk			x	x			B			
Scott Br.	C	1.5	Mouth	21,37N,2W	Crawford			x	x			B			
Scott Br.	C	1.2	Mouth	5,37N,1E	Washington			x	x			B			
Scott Br.	C	0.5	Mouth	5,44N,15W	Moniteau			x	x				x		
Second Cr.	P	8.0	Mouth	12,43N,6W	Gasconade			x	x			B			
Second Cr.	C	6.5	12,43N,6W	Hwy. 19	Gasconade			x	x			B			
Second Cr.	C	11.5	Mouth	29,52N,33W	Clay	Platte		x	x			B			
Second Nicolson Cr.	P	4.5	4,32N,33W	18,32N,33W	Barton			x	x			B			
Sees Cr.	P	1.0	Mouth	15,57N,7W	Marion			x	x			B			
Sees Cr.	C	2.2	15,57N,7W	22,57N,7W	Marion			x	x			B			
Sellers Cr.	C	3.5	Mouth	6,36N,14W	Camden			x	x			A	x		
Sellers Hollow	C	5.3	Mouth	7,37N,15W	Camden			x	x				x		
Selph Br.	P	1.0	Mouth	23,31N,20W	Greene			x	x			B			
Selva Hollow	C	2.4	Mouth	21,33N,16W	Laclede			x	x			B			
Sewer Br.	C	1.0	Mouth	16,46N,21W	Pettis			x	x			B			
Seymour Br. Hazel Cr.	C	0.5	Mouth	20,36N,1E	Washington			x	x			B	x		
Shackelford Br.	C	5.9	Mouth	21,52N,29W	Ray			x	x			B			
Shady Cr.	C	9.4	Mouth	5,52N,5W	Pike			x	x				x		
Shain Cr.	C	13.0	Mouth	Hwy. 46	Harrison			x	x			B			
Sharpsburg Br.	C	1.5	Mouth	28,57N,8W	Marion			x	x				x		
Shaver Cr.	P	15.1	Mouth	06,45N,20W	Pettis			x	x			B			

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Shaw Br.	C	1.2	Mouth	Sur 3272,36N,5E	St. Francois			x	x					x	
Shawnee Cr.	P	3.2	Mouth	8,33N,13E	Cape Girardeau			x	x			B			
Shawnee Cr.	P	2.0	Mouth	30,29N,3W	Shannon			x	x			B			
Shawnee Cr.	C	6.5	30,29N,03W	19,28N,03W	Shannon			x	x			B			
Shawnee Cr.	P	4.5	Mouth	9,45N,7W	Gasconade	Osage		x	x			B			
Shawnee Cr.	C	1.5	9,45N,7W	16,45N,7W	Osage			x	x			B			
Shays Cr.	C	1.7	Mouth	33,34N,7E	Madison			x	x			B			
Sheep Cr.	C	1.0	Mouth	1,56N,29W	Caldwell			x	x						
Shell Br.	C	5.3	Mouth	8,55N,8W	Monroe			x	x			B			
Shetley Cr.	P	4.0	Mouth	12,31N,7E	Madison			x	x			B			
Shetley Cr.	C	2.7	12,31N,7E	2,31N,7E	Madison			x	x			B			
Shibboleth Br.	P	1.0	Mouth	14,38N,3E	Washington			x	x			B			
Shibboleth Br.	C	3.0	14,38N,3E	21,38N,3E	Washington			x	x			B			
Shipley Slough	C	2.5	35,19N,9E	24,19N,9E	Dunklin			x	x			B			
Shoal Cr.	P	7.7	Mouth	27,36N,2W	Crawford			x	x			A			
Shoal Cr.	C	3.0	27,36N,2W	10,35N,2W	Crawford			x	x			B			
Shoal Cr.	C	3.1	Mouth	31,22N,17W	Taney			x	x			A	x		
Shoal Cr.	P	{41.1}/50.5	State Line	{27,26N,30W}/ 10,25N,29W	Newton			x	x	x	x	A	x	x	x
Shoal Cr.	P	0.5	10,25N,29W	{Capps Cr.}/ 15,25N,29W	Newton			x	x	x	x	A	x		
Shoal Cr.	P	15.7	{9,25N,29W}/ 15,25N,29W	12,23N,29W	Newton	Barry		x	x	x	x	A	x		
Shoal Cr.	C	5.0	12,23N,29W	32,23N,28W	Barry			x	x			B			
Shoal Cr.	P	10.3	Mouth	27,51N,32W	Clay			x	x			B			
Shoal Cr.	C	10.6	27,51N,32W	2,51N,33W	Clay			x	x			B			
Shoal Cr.	P	54.6	Mouth	25,56N,28W	Livingston	Caldwell		x	x			A	x	x	
Shoal Cr.	C	34.0	25,56N,28W	5,55N,30W	Caldwell	Clinton		x	x			B	x		
Shoal Cr.	C	17.4	Mouth	5,66N,17W	Putnam			x	x			B			
Shoal Cr. Ditch	C	9.8	27,57N,24W	28,56N,25W	Livingston			x	x			B			
Shootman Cr.	C	1.5	Mouth	6,53N,22W	Carroll			x	x			B			
Short Cr.	P	2.9	Mouth	30,22N,21W	Taney			x	x			B			
Short Cr.	C	0.9	30,22N,21W	36,22N,22W	Taney			x	x			B			
Shrum Cr.	P	1.7	Mouth	6,33N,10E	Bollinger			x	x			B			
Shrum Cr.	C	1.0	6,33N,10E	County Line	Bollinger			x	x			B			
Shuld Br.	C	2.0	Mouth	23,28N,9W	Texas			x	x			B			
Shuteye Cr.	C	4.5	Mouth	31,64N,16W	Adair			x	x			B			
Shut-in Cr.	P	1.8	Mouth	6,33N,2E	Reynolds			x	x			B			
Shut-in Cr.	C	3.3	6,33N,2E	20,34N,2E	Iron			x	x			B			
Shuyler Cr.	P	3.6	Mouth	28,28N,23W	Greene			x	x			B			
Silver Cr.	P	1.9	Mouth	25,27N,33W	Newton			x	x			B			
Silver Cr.	C	1.8	Mouth	01,23N,21W	Taney			x	x			B			
Silver Cr.	C	8.4	Mouth	34,53N,15W	Chariton	Randolph		x	x			B			
Silver Cr.	P	1.3	Mouth	9,23N,20W	Taney			x	x			B	x		
Silver Fk.	C	30.0	Mouth	33,51N,11W	Boone			x	x			A			
Silver Lake Br.	C	2.0	Mouth	13,26N,23W	Stone			x	x			B			
Simms Cr.	C	2.6	Mouth	15,37N,27W	St. Clair			x	x			B			
Simpson Br.	C	2.0	Mouth	6,38N,2E	Washington			x	x			B			

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Sims Br.	C	1.3	Mouth	26,31N,22W	Greene			x	x				B		
Sinking Cr.	P	2.3	Mouth	10,30N,26W	Dade			x	x				B		
Sinking Cr.	C	2.0	10,30N,26W	12,30N,26W	Dade			x	x				B		
Sinking Cr.	P	5.2	12,30N,26W	16,30N,25W	Dade			x	x				B		
Sinking Cr.	P	24.0	Mouth	8,32N,3W	Shannon	Dent		x	x	x			A		
Sinking Cr.	P	19.9	Mouth	19,31N,1E	Reynolds			x	x				B		
Sitton Br.	P	0.8	Mouth	12,50N,2W	Lincoln			x	x				B		
Sitton Br.	C	2.8	12,50N,2W	10,50N,2W	Lincoln			x	x				B		
Skinner Cr.	C	1.3	Mouth	09,42N,03W	Franklin			x	x				B		
Skull Cr.	C	0.5	Mouth	10,47N,19W	Cooper			x	x				B		
Skullbones Cr.	C	1.1	Mouth	35,42N,03E	Jefferson			x	x				B		
Slabtown Br.	C	3.7	Mouth	23,33N,10W	Texas			x	x				B		
Slagle Cr.	P	8.2	Mouth	17,32N,22W	Polk			x	x				B		
Slagle Cr.	P	2.2	Mouth	18,28N,9E	Bollinger			x	x				B		
Slater Br.	C	2.0	Mouth	Sur 1852,33N,6E	Madison			x	x				B		
Slater Br.	C	3.7	Mouth	34,30N,32W	Jasper			x	x				B		
Smiley Cr.	C	3.0	Mouth	36,46N,17W	Cooper			x	x				B		
Smith Br.	C	3.6	Mouth	18,48N,5W	Montgomery			x	x				B		
Smith Br.	C	0.5	Mouth	16,47N,9W	Callaway			x	x				B		
Smith Cr.	C	1.5	Mouth	26,47N,11W	Callaway			x	x				B		
Smith Cr.	C	12.0	Mouth	2,43N,17W	Moniteau	Morgan		x	x				A		
Smith Fk.	C	3.0	Mouth	15,56N,31W	Clinton			x	x				B		
Smith Hollow	C	1.0	Mouth	31,23N,11W	Ozark			x	x				B		
Smith Hollow Cr.	P	1.1	Mouth	26,37N,10W	Phelps			x	x				B		
Smith Hollow Cr.	C	1.9	Mouth	36,37N,10W	Phelps			x	x				B		
Snag Br.	C	2.4	Mouth	21,34N,27W	Cedar			x	x				B		
Snapps Br.	C	1.5	Mouth	2,36N,1W	Washington			x	x				B		
Sni-a-bar Cr.	C	4.3	30,48N,29W	5,47N,29W	Jackson			x	x				B		
Sni-a-bar Cr.	P	36.6	Mouth	30,48N,29W	Lafayette	Jackson		x	x				B	x	
Snowden Br.	C	2.0	Mouth	1,32N,7E	Madison			x	x				B		
Snyder Ditch	C	6.5	26,24N,7E	26,25N,7E	Butler			x	x				B		
Soap Cr.	P	1.0	Mouth	32,41N,17W	Morgan			x	x				B		
Soap Cr.	P	0.8	Mouth	19,42N,04W	Gasconade			x	x				B		
Soap Cr.	C	4.5	19,42N,04W	11,42N,05W	Gasconade			x	x				B	x	
Sons Cr.	P	1.5	Mouth	27,32N,27W	Dade			x	x				B		
Sons Cr.	C	10.8	27,32N,27W	31,31N,27W	Dade			x	x				B		
South Cr.	P	3.8	Mouth	34,29N,22W	Greene			x	x				B		
South Fk.	C	4.5	Mouth	25,24N,15W	Ozark			x	x				B		
South Fk, Blackwater R.	C	17.1	Mouth	08,46N,23W	Saline	Pettis		x	x				B		
South R.	PI	2.6	Mouth	16,58N,5W	Marion			x	x				B		
South R.	C	16.3	16,58N,5W	33,57N,6W	Marion			x	x				B		
Sparrow Foot Cr.	C	2.6	Mouth	15,41N,25W	Henry			x	x				B		
Spence Cr.	C	3.6	1,28N,15W	19,28N,15W	Wright			x	x				B		
Spencer Cr.	C	2.3	Mouth	14,37N,17W	Camden			x	x					x	
Spencer Cr.	C	1.5	Mouth	Sur 1786,47N,4E	St. Charles			x	x					x	
Spencer Cr.	P	11.0	Mouth	31,55N,4W	Ralls			x	x				B		
Spencer Cr.	C	24.0	31,55N,4W	23,53N,6W	Ralls			x	x				B		

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Spillway Ditch	P	24.7	28,23N,15E	33,25N,16E	New Madrid	Mississippi		x	x			A			
Spillway Ditch	C	8.7	5,24N,16E	25,26N,16E	Mississippi			x	x			B			
Splice Cr.	P	3.6	Mouth	7,47N,14W	Moniteau			x	x			A	x		
Splice Cr.	C	2.5	7,47N,14W	11,47N,15W	Moniteau			x	x			B			
Spring Alec Hollow	P	1.5	Mouth	29,30N,2W	Shannon			x	x			B			
Spring Alec Hollow	C	1.3	29,30N,2W	21,30N,2W	Shannon			x	x			B			
Spring Br.	P	1.0	Mouth	19,41N,17W	Morgan			x	x		x	B			
Spring Br.	P	1.9	Mouth	4,29N,22W	Greene			x	x			B			
Spring Cr.	P	5.8	Mouth	8,34N,24W	Cedar	Polk		x	x			B			
Spring Cr.	P	5.4	Mouth	17,39N,8W	Maries			x	x			B			
Spring Cr.	P	7.4	Mouth	31,35N,9W	Phelps		x	x	x		x	A	x		
Spring Cr.	P	16.0	31,35N,9W	16,33N,9W	Phelps	Texas		x	x			B			
Spring Cr.	C	3.7	16,33N,9W	26,33N,9W	Texas			x	x					x	
Spring Cr.	P	18.0	Mouth	19,34N,05W	Dent			x	x			B	x		
Spring Cr.	P	2.7	Mouth	4,41N,2W	Franklin			x	x		x	B			
Spring Cr.	C	5.1	4,41N,2W	17,41N,2W	Franklin			x	x			B	x		
Spring Cr.	P	6.5	Mouth	12,26N,24W	Stone			x	x		x	B			
Spring Cr.	P	5.2	Mouth	14,23N,11W	Ozark			x	x			B	x		
Spring Cr.	P	7.5	14,23N,11W	17,23N,10W	Ozark	Howell		x	x			A	x		x
Spring Cr.	C	8.9	17,23N,10W	6,23N,9W	Howell			x	x			B			
Spring Cr.	P	19.2	Mouth	23,26N,10W	Douglas	Howell		x	x			B	x		
Spring Cr.	P	6.0	Mouth	06,24N,13W	Douglas	Ozark		x	x		x	B	x		
Spring Cr.	C	5.3	6,24N,13W	8,24N,14W	Ozark			x	x			B			
Spring Cr.	C	1.0	Mouth	30,23N,8W	Howell			x	x			B			
Spring Cr.	P	8.5	Mouth	24,25N,5W	Oregon			x	x			B			
Spring Cr.	C	5.8	24,25N,5W	3,25N,5W	Oregon			x	x			B			
Spring Cr.	C	4.0	Mouth	28,49N,01W	Lincoln			x	x			B			
Spring Cr.	P	18.7	Mouth	26,64N,18W	Adair	Sullivan	x	x	x			A			
Spring Cr.	C	5.0	26,64N,18W	19,64N,18W	Sullivan			x	x			B	x		
Spring Cr.	P	1.0	Mouth	18,25N,16W	Douglas			x	x			B			
Spring Cr. Ditch	C	4.4	27,25N,9E	10,25N,9E	Stoddard			x	x			B			
Spring Fk.	C	6.3	16,44N,21W	01,43N,21W	Pettis	Benton		x	x			B			
Spring Fk.	P	5.4	Mouth	16,44N,21W	Pettis			x	x			B			
Spring Hollow	C	11.4	Bennett Springs	27,34N,17W	Laclede			x	x		x	B			
Spring R.	P	0.5	22,28N,34W	15,28N,34W	Jasper		x	x	x	x		A	x		x
Spring R.	P	61.7	State Line	20,28N,27W	Jasper	Lawrence	x	x	x	x		A	x		x
Spring R.	P	8.8	20,28N,27W	13,27N,27W	Lawrence		x	x	x		x	A	x		x
Spring R.	P	11.9	13,27N,27W	28,26N,26W	Lawrence			x	x			A	x		
Spring R.	C	1.0	28,26N,26W	27,26N,26W	Lawrence			x	x			B			
Spring Valley Cr.	P	10.8	Mouth	35,30N,5W	Shannon			x	x			B			
Spring Valley Cr.	C	10.0	35,30N,5W	6,29N,5W	Shannon			x	x			B			
Spurlock Hollow	C	2.7	Mouth	15,30N,11W	Texas			x	x			B			
Squaw Cr.	P	21.0	36,61N,39W	33,64N,38W	Holt	Atchison		x	x			B			
St. Francis R.	P	93.1	13,28N,5E	16,35N,4E	Wayne	St. Francois	x	x	x	x		A	x		
St. Francis R.	C	3.8	16,35N,4E	Ozark Ore Lake Dam	St. Francois			x	x			B			
St. Francis R.	P	104.0	State Line	Wappapello Dam	Dunklin	Wayne	x	x	x			A	x		

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St. James Ditch	C	2.1	11,23N,15E	1,23N,15E	New Madrid			x	x			B			
St. Johns Bayou	P	4.7	Mouth	28,23N,15E	New Madrid			x	x			B			
St. Johns Cr.	P	21.0	Mouth	12,43N,2W	Franklin			x	x			B			
St. Johns Cr.	C	9.0	12,43N,2W	19,43N,2W	Franklin			x	x			B			
St. Johns Ditch	P	15.3	Mouth	16,25N,14E	New Madrid			x	x			B	x		
St. Johns Ditch	C	4.7	36,28N,13E	Sur 1014,28N,14E	Scott		x	x	x			A			
St. Johns Ditch	P	18.7	16,25N,14E	36,28N,13E	New Madrid	Scott		x	x			B	x		
St. Johns Diversion Ditch	C	5.0	11,23N,15E	9,23N,16E	New Madrid			x	x			B			
	C		4,23N,16E	12,23N,16E	Mississippi			x	x			B			
Stahl Cr.	P	7.3	Mouth	25,29N,27W	Lawrence			x	x			B			
Stanley Cr.	P	3.1	Mouth	18,27N,8E	Wayne			x	x			B			
Starks Cr.	P	10.3	Mouth	12,37N,21W	Hickory			x	x	x		B			
Starks Cr.	C	7.0	12,37N,21W	31,37N,20W	Hickory			x	x	x		B			
Starvey Cr.	C	3.0	Mouth	15,32N,18W	Dallas			x	x			B			
Stater Cr.	P	2.4	Mouth	27,40N,2W	Crawford			x	x			B			
Stater Cr.	C	2.3	27,40N,2W	29,40N,2W	Crawford			x	x			A	x		
Steins Cr.	C	16.6	25,33N,15W	33,31N,15W	Laclede	Wright		x	x			B			
Stephens Br.	C	8.8	Mouth	29,47N,17W	Cooper			x	x			B			
Sterett Cr.	C	1.2	Mouth	21,41N,22W	Benton			x	x			B			
Steuber Hollow Cr.	P	0.6	Mouth	13,41N,09W	Osage			x	x			B			
Stevenson Bayou	C	6.4	25,26N,16E	31,27N,17E	Mississippi			x	x			B			
Stewart Cr.	P	1.0	Mouth	12,27N,19W	Christian			x	x			B			
Stewart Cr.	C	3.0	12,27N,19W	17,27N,18W	Christian			x	x			B			
Stick Br.	C	0.4	Mouth	21,36N,21W	Hickory			x	x			B			
Stillcamp Ditch	C	12.3	Mouth	35,24N,6E	Butler		x	x	x			B			
Stillhouse Br.	C	2.0	Mouth	26,62N,31W	Gentry			x	x			B			
Stinking Cr.	C	4.7	Mouth	5,34N,28W	Cedar			x	x			B			
Stinking Cr.	C	1.4	Mouth	22,35N,22W	Polk			x	x			B			
Stinking Cr.	C	15.8	24,56N,16W	Mouth	Macon			x	x			B			
Stinson Cr.	C	11.9	Mouth	16,47N,9W	Callaway			x	x			B			
Stoak Cr.	C	2.3	Mouth	14,45N,26W	Johnson			x	x			B			
Stockton Br.	C	3.6	Mouth	4,34N,26W	Cedar			x	x			B			
Stone Hill Br.	C	2.3	Mouth	35,34N,4W	Dent			x	x			B			
Stone Hill Br.	P	2.2	35,34N,4W	31,34N,3W	Dent			x	x			B			
Storrs Cr.	C	2.7	Mouth	16,29N,4W	Shannon			x	x			B			
Stouts Cr.	P	7.3	Mouth	33,34N,4E	Madison	Iron	x	x	x	x		B	x		
Stouts Cr.	P	4.0	33,34N,4E	1,33N,3E	Iron			x	x			B	x		
Stouts Cr.	C	1.1	1,33N,3E	2,33N,3E	Iron			x	x			B			
Straight Fk.	P	12.0	4,44N,16W	6,43N,17W	Moniteau	Morgan		x	x			A			
Straight Fk.	C	6.0	6,43N,17W	36,43N,18W	Morgan			x	x			B			
Stream Mill Hollow	P	3.0	Mouth	27,32N,10W	Texas			x	x			B			
Stream Mill Hollow	C	2.0	27,32N,10W	28,32N,10W	Texas			x	x				x		
String Cr.	C	2.0	Mouth	20,45N,14W	Moniteau			x	x			B			
Stringtown Br.	C	1.5	Mouth	12,36N,1W	Washington			x	x			B			
Strobel Br.	P	0.7	Mouth	1,44N,14W	Cole			x	x			B			
Strobel Br.	C	2.0	12,44N,14W	35,45N,14W	Cole			x	x			B			
Strobel Br.	C	2.4	Mouth	24,44N,14W	Cole			x	x			B			

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WATER BODY	CLASS	MILES	FROM	TO	COUNTY	COUNTY 2	IRR	LWW	AQL	CLF	CDF	WBC	SCR	DWS	IND
Strother Cr.	P	6.0	Mouth	33,34N,1W	Reynolds	Iron		x	x	x		B			
Sugar Br.	P	2.3	Mouth	12,48N,14W	Boone			x	x			B			
Sugar Br.	C	3.0	12,48N,14W	3,48N,14W	Boone			x	x			B			
Sugar Cr.	C	1.6	Mouth	17,51N,13W	Boone			x	x			B			
Sugar Cr.	P	9.5	Mouth	23,41N,11W	Miller	Maries				x		B			
Sugar Cr.	C	13.8	Mouth	33,44N,30W	Cass			x	x			B			
Sugar Cr.	C	11.0	Mouth	Sur 1683,50N,1E	Lincoln			x	x			B			
Sugar Cr.	C	3.8	Mouth	33,45N,6W	Gasconade			x	x			B			
Sugar Cr.	C	5.5	Mouth	20,43N,5E	Jefferson			x	x			B			
Sugar Cr.	P	3.0	Mouth	2,54N,37W	Platte			x	x			B			
Sugar Cr.	C	6.5	2,54N,37W	28,55N,36W	Platte	Buchanan		x	x			B			
Sugar Cr.	P1	3.8	Mouth	18,64N,6W	Clark			x	x			B			
Sugar Cr.	C	10.2	18,64N,6W	29,65N,7W	Clark			x	x			B			
Sugar Cr.	C	12.0	Mouth	15,62N,7W	Lewis			x	x			B		x	
Sugar Cr.	P	8.0	Mouth	22,62N,26W	Grundy	Harrison		x	x			B			
Sugar Cr.	C	12.0	22,62N,26W	35,63N,27W	Harrison			x	x			B			
Sugar Cr.	C	6.3	Mouth	18,61N,15W	Adair			x	x			B			
Sugar Cr.	P	6.8	Mouth	Sugar Cr. Lake Dam	Randolph			x	x			B			
Sugar Cr.	C	1.5	Mouth	36,55N,3W	Pike			x	x			B			
Sugar Fk.	P	1.0	Mouth	5,23N,33W	McDonald			x	x			B			
Sugar Tree Br.	C	3.5	Mouth	34,52N,15W	Howard			x	x			B			
Sugarcamp Hollow	C	2.5	Mouth	17,23N,26W	Barry			x	x					x	
Sulphur Cr.	P	2.1	Mouth	15,51N,2W	Lincoln			x	x			B			
Sulphur Cr.	C	9.3	15,51N,2W	19,52N,2W	Lincoln	Pike		x	x			B			
Sulphur Cr.	C	1.8	Mouth	9,31N,4E	Iron			x	x			B			
Sulphur Cr.	P	5.5	Mouth	30,49N,16W	Howard			x	x			B			
Sulphur Cr.	C	7.0	30,49N,16W	26,50N,17W	Howard			x	x			B			
Summers Cr.	C	1.0	Mouth	19,32N,9E	Bollinger			x	x			B			
Surratt Cr.	C	1.2	Mouth	26,25N,19W	Christian			x	x			B			
Sutton Br.	P	0.5	Mouth	35,32N,2E	Reynolds			x	x			B			
Sutton Cr.	P	1.0	Mouth	12,29N,4W	Shannon			x	x			B			
Sutton Hollow	C	0.5	Mouth	36,31N,3E	Iron			x	x			B			
Swan Cr.	C	2.2	Mouth	8,42N,8W	Osage			x	x			B			
Swan Cr.	P	36.8	Mouth	4,26N,18W	Taney	Christian	x	x	x	x		A		x	
Swan Cr.	C	2.0	4,26N,18W	34,27N,18W	Christian	Douglas		x	x			B			
Swede Br.	C	0.4	Mouth	32,37N,21W	Hickory			x	x			B			
Sweet Hollow	C	2.7	Mouth	27,36N,17W	Laclede			x	x			B			
Sweet Spring Cr.	C	11.2	Mouth	18,53N,14W	Randolph			x	x			B		x	
Sweeten Cr.	C	1.6	Mouth	26,22N,13W	Ozark			x	x			B			
Sweetwater Br.	P	1.0	Mouth	30,34N,7E	Madison			x	x			B			
Sweetwater Br.	C	1.7	30,34N,7E	28,34N,7E	Madison			x	x			B			
Sweetwater Cr.	P	3.0	Mouth	28,31N,2W	Reynolds			x	x			B			
Sweezer Cr.	C	4.9	Mouth	20,58N,15W	Macon			x	x			B			
Swift Cr.	C	1.0	Mouth	15,26N,5E	Butler			x	x			B			
Swift Ditch	C	4.0	26,23N,14E	2,23N,14E	New Madrid			x	x			B			
Sycamore Br.	P	4.5	Mouth	7,29N,26W	Lawrence			x	x			B			
Sycamore Cr.	P	3.7	Mouth	20,29N,24W	Greene			x	x			B			

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Sycamore Cr.	C	1.0	Mouth	15,27N,3W	Shannon			x	x			B			
Tabo Cr.	P	11.4	Mouth	27,50N,26W	Lafayette			x	x			B			
Tabo Cr.	C	8.4	27,50N,26W	20,49N,26W	Lafayette			x	x			B			
Tabor Cr.	P	5.6	Mouth	9,24N,10W	Douglas	Howell		x	x			B			
Tabor Cr.	C	3.7	9,24N,10W	11,24N,10W	Howell			x	x			B			
Tanyard Cr.	C	4.0	Mouth	9,50N,16W	Howard			x	x			B			
Tarbutton Cr.	P	2.0	Mouth	4,26N,14W	Douglas			x	x			B			
Tarkio R.	P	33.5	Mouth	State Line	Holt	Atchison	x	x	x			B	x	x	
Tater Hill Cr.	C	7.7	Mouth	27,55N,24W	Carroll			x	x			B			
Taum Sauk Cr.	C	4.0	Mouth	14,33N,2E	Reynolds			x	x			B			
Tavern Cr.	P	39.2	Mouth	5,38N,12W	Miller			x	x	x		A	x		
Tavern Cr.	C	10.6	5,38N,12W	12,37N,13W	Miller	Pulaski		x	x	x		A			
Tavern Cr.	P	2.7	Mouth	12,44N,2E	Franklin			x	x			B			
Taylor Br.	C	1.2	Mouth	27,36N,6E	St. Francois			x	x			B			
Teague Br.	C	5.8	Mouth	1,33N,27N	Cedar			x	x			B			
Tebo Cr.	P	4.0	Mouth	6,42N,24W	Henry			x	x			B			
Tebo Cr.	C	0.5	6,42N,24W	31,43N,24W	Henry			x	x			B			
Tebo Cr.	C	3.1	Mouth	19,44N,21W	Pettis			x	x			B			
Tecster Cr.	C	3.0	Mouth	20,25N,14W	Douglas			x	x			B			
Tenmile Cr.	P	9.3	Mouth	10,25N,4E	Butler			x	x			A	x		
Tenmile Cr.	C	14.2	10,25N,4E	29,26N,3E	Butler	Carter		x	x			A	x		
Tenmile Pond	C	5.1	28,24N,16E	2,24N,16E	Mississippi			x	x			B			
Tennessee Cr.	C	8.0	Mouth	34,44N,31W	Cass			x	x			B			
Terrell Br.	P	2.2	Mouth	17,28N,18W	Webster			x	x			B			
Terre Bleue Cr.	P	6.3	Mouth	Sur 2107,37N,5E	St. Francois			x	x	x		A			
Terre Bleue Cr.	C	6.0	Sur 2107,37N,5E	Sur 2097,37N,6E	St. Francois			x	x			B			
Terrell Cr.	P	1.0	Mouth	2,27N,23W	Christian			x	x		x	B			
Terrell Cr.	P	3.7	2,27N,23W	5,27N,23W	Christian			x	x			B			
Terrell Cr.	C	1.0	5,27N,23W	6,27N,23W	Christian			x	x			B			
Terrell Cr.	P	1.0	6,27N,23W	1,27N,24W	Christian			x	x			B			
Thief Cr.	C	3.6	Mouth	12,66N,16W	Schuyler			x	x			B			
Third Cr.	P	4.5	Mouth	5,42N,6W	Osage	Gasconade		x	x			B			
Third Cr.	C	6.5	5,42N,6W	7,42N,5W	Gasconade			x	x			B			
Third Fk. Platte R.	C	33.7	Mouth	25,61N,33W	Buchanan	Gentry		x	x			B	x		
Thomas Cr.	C	8.8	Mouth	3,35N,20W	Hickory	Dallas		x	x			B			
Thompson Br.	C	1.0	Mouth	1,62N,31W	Gentry			x	x			B			
Thompson Br.	C	0.5	Mouth	5,47N,14W	Moniteau			x	x			B			
Thompson Cr.	C	1.6	Mouth	12,59N,27W	Daviess			x	x			B			
Thompson R.	P	70.6	Mouth	State Line	Livingston	Harrison	x	x	x			B		x	
Three Hill Cr.	C	4.4	Mouth	7,37N,4E	St. Francois			x	x			B	x		
Threemile Cr.	C	2.4	Mouth	21,40N,4W	Franklin	Crawford		x	x			B			
Thurman Cr.	P	3.0	Mouth	30,27N,32W	Newton			x	x			B			
Tick Cr.	C	4.4	Mouth	28,38N,9W	Phelps			x	x				x		
Tiff Cr.	P	2.1	Mouth	04,38N,04E	Jefferson			x	x			B			
Tiger Fk.	C	14.0	Mouth	10,59N,10W	Shelby			x	x			B			
Tobin Cr.	C	8.0	Mouth	34,65N,12W	Scotland			x	x			B			

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Toby Hollow	C	1.7	Mouth	Toby Sprg.	Camden			x	x			B			
Todd Cr.	C	9.9	Mouth	15,52N,34W	Platte			x	x			B	x		
Todd Hollow	C	0.5	Mouth	34,35N,3W	Crawford			x	x			B			
Todd Hollow	C	1.0	Mouth	3,36N,2W	Crawford			x	x			B			
Tombstone Cr.	P	2.7	Mouth	26,62N,26W	Harrison			x	x			B			
Tombstone Cr.	C	3.9	26,62N,26W	28,62N,26W	Harrison			x	x					x	
Toms Cr.	C	2.2	Mouth	10,32N,2W	Reynolds			x	x					x	
Tory Cr.	P	2.8	Mouth	27,26N,22W	Stone	Christian		x	x		x	B			
Town Br.	P	0.8	Mouth	13,36N,1W	Washington			x	x			B			
Town Br.	C	1.8	13,36N,1W	18,36N,1E	Washington			x	x			B			
Town Br.	P	2.5	Mouth	12,33N,23W	Polk			x	x			B			
Townsend Slough	C	1.7	Mouth	21,37N,32W	Vernon			x	x			B			
Towstring Cr.	C	7.7	Mouth	20,56N,22W	Livingston			x	x			B			
Tr. to Blue Shawnee Cr.	C	1.8	Mouth	21,33N,13E	Cape Girardeau			x	x			B			
Tr. to Bois Brule Ditch	C	1.0	Mouth	Sur 1870,36N,11E	Perry			x	x			B			
Tr. to Isle du Bois Cr.	C	1.0	Mouth	14,39N,6E	Ste. Genevieve			x	x			B			
Tr. to N. Pr. Beaverdam Cr.	C	1.0	Mouth	19,25N,4E	Ripley			x	x			B			
Tr. to O. Ch. Nishnabotna R.	C	0.9	Mouth	17,64N,41W	Atchison			x	x			B			
Tr. to O. Ch. Nishnabotna R.	C	2.0	Mouth	30,66N,41W	Atchison			x	x			B			
Tr. to Woods Fk. Gasconade	C	2.3	2,29N,16W	15,29N,16W	Wright			x	x			B			
Trace Cr.	P	1.3	Mouth	1,35N,1W	Washington			x	x			B			
Trace Cr.	C	1.3	1,35N,1W	6,35N,1E	Washington			x	x			B			
Trace Cr.	C	6.2	Mouth	29,32N,6E	Madison			x	x			B			
Trace Cr.	P	4.0	Mouth	4,30N,8E	Wayne	Bollinger		x	x	x		B			
Trace Cr.	C	3.4	4,30N,8E	26,31N,8E	Bollinger	Madison		x	x			B			
Trail Cr.	C	4.0	Mouth	10,24N,12W	Ozark			x	x			B			
Trail Cr.	P	4.7	Mouth	Hwy. 136	Harrison			x	x			B			
Trail Cr.	C	5.0	Hwy. 136	19,64N,26W	Harrison			x	x			B			
Trib to Bates Cr.	C	1.0	Mouth	16,37N,02E	Washington			x	x			B			
Trib to Coon Cr.	C	0.5	Mouth	2,45N,22W	Pettis			x	x					x	
Trib to Coon Cr.	C	1.8	Mouth	12,45N,22W	Pettis			x	x					x	
Trib to Crabapple Cr.	C	1.3	Mouth	2,53N,26W	Ray			x	x			B			
Trib to E. Fk Postoak Cr.	C	2.0	Mouth	34,45N,26W	Johnson			x	x			B			
Trib to E. Fk Postoak Cr.	C	3.9	Mouth	23,44N,26W	Johnson			x	x			B			
Trib to L. Whitewater Cr.	C	1.0	16,33N,9E	17,33N,9E	Bollinger			x	x			B			
Trib to Pomme de Terre Res.	C	1.5	Mouth	30,36N,22W	Hickory			x	x			B			
Trib to Roubidoux Cr.	C	3.6	Mouth	7,33N,11W	Pulaski	Texas		x	x			B			
Trib to trib to Bois Brule Ditch	C	1.6	9,36N,11E	Sur 147,37N,11E	Perry			x	x					x	
Trib to Trib. to S. Moreau Cr.	C	1.2	Mouth	30,43N,15W	Moniteau			x	x			B			
Trib. Headwater Div.	P	1.5	Mouth	31,30N,12E	Cape Girardeau			x	x			B			
Trib. Headwater Div.	C	1.0	31,30N,12E	36,30N,11E	Cape Girardeau			x	x			B			
Trib. M. Fk. Big Cr.	C	1.6	Mouth	24,31N,6E	Madison			x	x			B			
Trib. M. Fk. Grand R.	C	1.4	Mouth	State Line	Worth			x	x			B			
Trib. M. Fk. Salt R.	C	1.0	Mouth	22,59N,14W	Macon			x	x			B			
Trib. M. Fk. Tebo Cr.	C	1.7	19,43N,24W	17,43N,24W	Henry			x	x			B			

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	C		9,43N,24W	3,43N,24W	Henry			x	x				B		
Trib. M. Fk. Tebo Cr.	C	0.5	Mouth	5,43N,24W	Henry			x	x				B		
Trib. M. Fk. Tebo Cr.	C	3.1	Mouth	36,44N,25W	Henry			x	x				B		
Trib. Old Mines Cr.	C	1.5	Mouth	32,39N,3E	Washington			x	x				B		
Trib. to Alley Br.	C	1.6	Mouth	22,29N,5W	Shannon			x	x				B		
Trib. to Apple Cr.	C	4.7	Mouth	Hwy. 51	Perry			x	x				B		
Trib. to Apple Cr.	C	2.1	Mouth	16,34N,10E	Perry			x	x				B		
Trib. to Atwell Cr.	C	3.2	Mouth	05,38N,11W	Miller	Maries		x	x				B		
Trib. to Baileys Cr.	C	0.8	Mouth	06,45N,06W	Gasconade			x	x				B		
Trib. to Baileys Cr.	P	0.8	Mouth	32,45N,07W	Osage			x	x				B		
Trib. to Baileys Cr.	C	0.5	Mouth	27,45N,7W	Osage			x	x				B		
Trib. to Barkers Cr.	C	1.0	Mouth	15,42N,24W	Henry			x	x				B		
Trib. to Barn Hollow	C	1.3	Mouth	4,27N,7W	Texas	Howell		x	x				B		
Trib. to Barren Fk.	C	1.0	Mouth	31,39N,13W	Miller			x	x				B		
Trib. to Barren Fork	C	1.5	Mouth	36,44N,05W	Gasconade			x	x				B		
Trib. to Basin Fk.	C	3.7	Mouth	23,44N,23W	Pettis			x	x				B		
Trib. to Basin Fk.	C	3.1	Mouth	36,45N,23W	Pettis			x	x				B		
Trib. to Bauer Br.	C	3.0	Mouth	28,43N,21W	Benton			x	x				B		
Trib. to Bean Cr.	C	0.6	Mouth	9,32N,8W	Texas			x	x				B	x	
Trib. to Beaver Cr.	C	1.0	Mouth	25,29N,12W	Texas			x	x				B		
Trib. to Beaver Cr.	C	1.0	Mouth	23,24N,18W	Taney			x	x				B		
Trib. to Beaverdam Cr.	C	0.7	Mouth	25,47N,23W	Pettis			x	x				B		
Trib. to Beaverdam Cr.	C	0.8	Mouth	24,47N,23W	Pettis			x	x				B		
Trib. to Bee Cr.	C	1.8	Mouth	3,54N,35W	Platte			x	x				B		
Trib. to Beeler Br.	C	1.4	Mouth	29,28N,10W	Texas			x	x				B		
Trib. to Benton Cr.	P	0.7	Mouth	5,36N,5W	Crawford			x	x				B		
Trib. to Big Berger Cr.	C	0.8	Mouth	35,45N,4W	Franklin			x	x				B		
Trib. to Big Br.	C	1.2	Mouth	14,44N,04W	Franklin			x	x				B		
Trib. to Big Buffalo Cove	C	0.8	Mouth	35,41N,20W	Benton			x	x				B		
Trib. to Big Buffalo Cr.	C	0.6	Mouth	12,41N,20W	Benton			x	x				B		
Trib. to Big Cr.	C	3.0	Mouth	4,29N,8W	Texas			x	x				B		
Trib. to Big Cr.	C	2.2	Mouth	2,29N,8W	Texas			x	x				B		
Trib. to Big Cr.	C	1.0	Mouth	24,31N,3E	Iron			x	x				B		
Trib. to Big Cr.	C	1.4	Mouth	35,32N,3E	Iron			x	x				B		
Trib. to Big Lake Bayou	C	3.1	Mouth	19,27N,16E	Mississippi			x	x				B		
Trib. to Big Otter Cr.	C	1.0	Mouth	32,40N,25W	Henry			x	x				B		
Trib. to Big R.	C	1.0	Mouth	26,39N,3E	Washington			x	x					x	
Trib. to Big R.	C	1.0	Mouth	2,36N,3E	Washington			x	x				B		
Trib. to Big R.	C	0.5	Mouth	27,36N,2E	Washington			x	x				B	x	
Trib. to Billies Cr.	C	2.1	Mouth	10,29N,25W	Lawrence			x	x				B		
Trib. to Bird Br.	C	0.6	Mouth	14,41N,22W	Benton			x	x						
Trib. to Black R.	C	2.0	Mouth	11,30N,2E	Reynolds			x	x				B		
Trib. to Blackwater R.	C	1.1	Mouth	24,48N,22W	Saline	Pettis		x	x				B		
Trib. to Blackwater R.	C	0.7	Mouth	19,48N,22W	Saline	Pettis		x	x				B		
Trib. to Blackwater R.	C	0.5	Mouth	21,48N,23W	Pettis			x	x				B		
Trib. to Blackwater R.	C	1.7	Mouth	29,48N,23W	Pettis			x	x				B		
Trib. to Boeuf Cr.	C	1.5	Mouth	35,45N,3W	Franklin			x	x				B		

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Trib. to Boeuf Cr.	C	1.5	Mouth	17,44N,3W	Franklin			x	x			B			
Trib. to Boeuf Cr.	C	1.2	Mouth	17,44N,2W	Franklin			x	x			B			
Trib. to Boeuf Cr.	C	0.2	Mouth	12,43N,04W	Franklin			x	x			B			
Trib. to Boeuf Cr.	C	1.3	Mouth	08,42N,04W	Gasconade			x	x			B			
Trib. to Bois Brule Cr.	C	0.9	Mouth	15,42N,13W	Cole			x	x			B			
Trib. to Bois Brule Cr.	C	0.7	Mouth	24,42N,13W	Cole			x	x			B			
Trib. to Bois Brule Ditch	P	1.7	Mouth	4,36N,11E	Perry			x	x			B			
Trib. to Boone Cr.	C	0.3	Mouth	15,40N,03W	Crawford			x	x			B			
Trib. to Bourbeuse R.	C	2.0	14,40N,06W	Hwy. B	Gasconade			x	x			B			
Trib. to Bourbeuse R.	P	0.2	Mouth	14,40N,06W	Gasconade			x	x			B			
Trib. to Brazeau Cr.	P	2.2	Mouth	7,34N,13E	Perry			x	x			B			
Trib. to Brazeau Cr.	C	1.0	7,34N,13E	12,34N,12E	Perry			x	x			B			
Trib. to Brewers Cr.	C	0.5	Mouth	19,34N,5E	Madison			x	x			B			
Trib. to Brock Cr.	C	1.0	Mouth	35,36N,1E	Washington			x	x			B			
Trib. to Brush Cr.	C	1.9	Mouth	15,42N,23W	Benton			x	x			B			
Trib. to Brush Cr.	C	1.7	Mouth	24,42N,9W	Osage			x	x			B			
Trib. to Brush Cr.	C	1.5	Mouth	19,42N,8W	Osage			x	x			B			
Trib. to Brush Cr.	C	1.0	Mouth	34,40N,5W	Crawford			x	x			B			
Trib. to Brush Cr.	C	1.0	Mouth	25,40N,5W	Crawford			x	x			B			
Trib. to Brush Cr.	C	1.4	Mouth	30,36N,25W	St. Clair			x	x			B			
Trib. to Brush Cr.	C	0.4	Mouth	28,36N,25W	St. Clair			x	x			B			
Trib. to Brush Cr.	C	0.1	Mouth	26,39N,05W	Crawford			x	x			B			
Trib. to Brush Cr.	C	1.0	Mouth	34,43N,14W	Cole			x	x			B			
Trib. to Brush Cr.	C	1.0	Mouth	14,35N,24W	Polk			x	x			B	x		
Trib. to Bryant Cr.	C	1.8	Mouth	14,24N,13W	Ozark			x	x			B			
Trib. to Bryants Cr.	C	3.0	Mouth	17,51N,1E	Lincoln			x	x			B			
Trib. to Bryants Cr.	C	1.7	Mouth	20,51N,1E	Lincoln			x	x			B			
Trib. to Bucklick Cr.	C	1.5	Mouth	24,44N,3W	Franklin			x	x			B			
Trib. to Bucklick Cr.	C	1.3	Mouth	29,44N,2W	Franklin			x	x			B			
Trib. to Burris Fk.	C	0.5	Mouth	3,43N,16W	Moniteau			x	x			B			
Trib. to Burris Fk.	C	0.5	Mouth	34,44N,16W	Moniteau			x	x			B			
Trib. to Busch Cr.	C	3.0	Mouth	34,44N,1W	Franklin			x	x					x	
Trib. to Busch Cr.	C	1.8	Mouth	35,44N,1W	Franklin			x	x			B	x		
Trib. to Butcher Cr.	C	1.0	Mouth	22,48N,1E	Lincoln			x	x			B			
Trib. to Byrd Cr.	C	1.0	Mouth	Sur 2236,32N,12E	Cape Girardeau			x	x			B			
Trib. to Calico Cr.	C	2.0	Mouth	LG 3022,29N,2E	Washington			x	x			B	x		
Trib. to Camp Br.	C	1.0	Mouth	24,45N,22W	Pettis			x	x			B			
Trib. to Camp Br.	C	0.7	Mouth	23,45N,22W	Pettis			x	x			B			
Trib. to Camp Br.	C	0.8	Mouth	29,45N,22W	Pettis			x	x			B			
Trib. to Camp Cr.	C	1.1	Mouth	20,36N,6E	St. Francois			x	x			B			
Trib. to Cane Cr.	P	1.3	Mouth	Sur 2138,32N,12E	Cape Girardeau			x	x			B			
Trib. to Cane Cr.	C	0.8	Mouth	10,26N,4E	Butler			x	x			B			
Trib. to Cane Cr.	C	1.0	Mouth	8,26N,4E	Butler			x	x			B			
Trib. to Cane Cr.	C	1.2	Mouth	35,26N,4E	Butler			x	x			B			
Trib. to Caney Cr.	C	1.9	Mouth	12,24N,17W	Taney			x	x			A			
Trib. to Cape La Croix Cr.	C	1.7	Sur 3314,31N,13E	11,31N,13E	Cape Girardeau			x	x					x	
Trib. to Capps Cr.	P	1.0	Mouth	14,25N,29W	Newton			x	x			B			

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Trib. to Castile Cr.	C	1.2	Mouth	3,56N,32W	Clinton			x	x			B			
Trib. to Castor R.	P	1.8	Mouth	5,28N,9E	Bollinger			x	x			B			
Trib. to Castor R.	C	0.5	5,28N,9E	Hwy. 51	Bollinger			x	x			B			
Trib. to Castor R.	C	1.5	Mouth	16,28N,10E	Bollinger	Stoddard		x	x			B			
Trib. to Castor R.	C	1.0	Mouth	25,34N,7E	Madison			x	x			B			
Trib. to Castor R.	P	3.0	Mouth	23,34N,7E	Madison			x	x			B			
Trib. to Cedar Cr.	C	0.5	Mouth	32,46N,11W	Callaway			x	x			B			
Trib. to Cedar Cr.	C	1.0	Mouth	31,23N,18W	Taney			x	x			B	x		
Trib. to Center Cr.	C	1.0	Mouth	21,27N,29W	Newton			x	x			B			
Trib. to Cherry Valley Cr.	C	1.2	Mouth	9,37N,3W	Crawford			x	x			B			
Trib. to Clark Fk.	C	0.5	Mouth	15,47N,16W	Cooper			x	x					x	
Trib. to Clear Cr.	C	1.1	Mouth	10,41N,23W	Benton			x	x			B	x		
Trib. to Clear Cr.	C	1.0	Mouth	21,36N,2E	Washington			x	x			B			
Trib. to Clear Cr.	C	0.4	Mouth	23,44N,25W	Johnson			x	x			B			
Trib. to Clear Cr.	C	1.6	Mouth	26,39N,06W	Phelps			x	x			B			
Trib. to Clear Cr.	C	1.7	Mouth	05,34N,30W	Vernon			x	x			B			
Trib. to Clear Cr.	C	0.9	Mouth	28,42N,23W	Benton			x	x			B			
Trib. to Clear Cr.	C	1.8	Mouth	32,34N,30W	Vernon			x	x			B			
Trib. to Clear Cr.	C	2.2	Mouth	15,54N,31W	Clinton			x	x			B			
Trib. to Clear Cr.	C	0.9	Mouth	19,36N,2E	Washington			x	x			B	x		
Trib. to Clear Fk.	C	0.8	Mouth	15,44N,25W	Johnson			x	x					x	
Trib. to Clear Fk.	C	2.0	Mouth	04,44N,25W	Johnson			x	x			B			
Trib. to Coon Cr.	C	2.0	Mouth	32,54N,13W	Randolph			x	x			B			
Trib. to Coopers Cr.	C	3.2	Mouth	4,39N,26W	St. Clair			x	x			B			
Trib. to Courtois Cr.	C	1.2	Mouth	31,37N,1W	Washington			x	x			B			
Trib. to Courtois Cr.	C	0.5	Mouth	16,36N,1W	Washington			x	x			B	x		
Trib. to Courtois Cr.	C	0.5	Mouth	16,36N,1E	Washington			x	x			B	x		
Trib. to Crane Cr.	C	0.9	Mouth	14,36N,21W	Hickory			x	x			B			
Trib. to Crane Cr.	C	0.8	Mouth	15,36N,21W	Hickory			x	x			B			
Trib. to Crane Cr.	C	1.9	Mouth	2,36N,21W	Hickory			x	x			B			
Trib. to Crane Cr.	C	1.0	Mouth	29,37N,21W	Hickory			x	x			B			
Trib. to Crane Cr.	C	0.2	Mouth	01,36N,21W	Hickory			x	x			B			
Trib. to Crane Cr.	C	0.4	Mouth	01,36N,21W	Hickory			x	x			B			
Trib. to Crane Cr.	C	0.1	Mouth	31,37N,21W	Hickory			x	x			B			
Trib. to Crider Cr.	C	0.9	Mouth	11,41N,7W	Osage			x	x			B			
Trib. to Crooked Cr.	C	1.0	Mouth	31,37N,4W	Crawford			x	x			B			
Trib. to Crooked Cr.	P	1.0	Mouth	Lk Girardeau Dam	Cape Girardeau			x	x			B			
Trib. to Crooked Cr.	C	1.5	9,30N,11E	5,30N,11E	Cape Girardeau			x	x			B			
Trib. to Crooked Cr.	C	1.0	Mouth	14,30N,10E	Bollinger			x	x			B			
Trib. to Crooked Cr.	C	0.7	Mouth	32,30N,11E	Cape Girardeau			x	x			B			
Trib. to Cub Cr.	C	1.9	Mouth	17,35N,1E	Washington			x	x			B			
Trib. to Davis Cr.	C	3.0	Mouth	3,61N,38W	Holt			x	x					x	
Trib. to Deer Cr.	P	1.0	Mouth	33,45N,08W	Osage			x	x			B			
Trib. to Deer Cr.	C	1.9	33,45N,08W	04,44N,08W	Osage			x	x			B			
Trib. to Deer Cr.	P	0.3	Mouth	06,39N,20W	Benton			x	x			B			
Trib. to Deer Cr.	P	0.8	Mouth	28,40N,20W	Benton			x	x			B			
Trib. to Dillard Cr.	C	1.5	Mouth	20,31N,11E	Cape Girardeau			x	x			B			

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Trib. to Dry Cr.	C	1.0	Mouth	15,36N,3W	Crawford			x	x			B			
Trib. to Dry Cr.	C	1.8	Mouth	36,37N,3W	Crawford			x	x			B			
Trib. to Dry Cr.	C	4.8	Mouth	20,25N,9W	Howell			x	x			B			
Trib. to Dry Cr.	C	2.2	Mouth	10,25N,9W	Howell			x	x			B			
Trib. to Dry Fork	C	2.0	Mouth	34,37N,07W	Phelps			x	x			B			
Trib. to Dry Fork	C	0.4	Mouth	27,38N,06W	Phelps			x	x			B			
Trib. to Dunn Spring Cr.	C	1.5	Mouth	Sur 976,44N,1E	Franklin			x	x			B			
Trib. to E. Brush Cr.	C	0.5	Mouth	3,45N,15W	Moniteau			x	x			B			
Trib. to E. Fk. Crooked R.	C	4.8	Mouth	24,54N,28W	Ray			x	x			B			
Trib. to E. Fk. Huzzah Cr.	C	1.0	Mouth	30,34N,2W	Dent			x	x			B			
Trib. to E. Fk. L. Blue R.	P	1.9	Mouth	Lk. Tapawingo Dam	Jackson			x	x			B			
Trib. to E. Fk. Lost Cr.	P	1.0	Mouth	2,27N,7E	Wayne			x	x			B			
Trib. to E. Fk. Lost Cr.	C	1.0	2,27N,7E	2,27N,7E	Wayne			x	x			B			
Trib. to E. Fk. Rock Cr.	C	1.0	Mouth	18,22N,25W	Barry			x	x			B			
Trib. to E. Fk. Rock Cr.	C	1.0	Mouth	11,22N,26W	Barry			x	x			B			
Trib. to E. Fk. Sni-a-bar	C	3.8	Mouth	22,48N,28W	Lafayette			x	x			B			
Trib. to E. Fk. Sni-a-bar	C	2.7	Mouth	19,48N,28W	Lafayette			x	x			B			
Trib. to East Cr.	C	1.3	Mouth	32,46N,32W	Cass			x	x			B			
Trib. to Edmondson Cr.	C	3.1	Mouth	15,52N,20W	Saline			x	x			B			
Trib. to Elk Br.	C	0.2	Mouth	32,46N,22W	Pettis			x	x			B			
Trib. to Elk Cr.	P	2.0	Mouth	25,29N,10W	Texas			x	x			B	x		
Trib. to Elk Fk.	C	0.2	Mouth	16,44N,23W	Pettis			x	x			B			
Trib. to Factory Cr.	P	0.5	Mouth	2,46N,14W	Moniteau			x	x			B			
Trib. to Factory Cr.	C	0.5	2,46N,14W	35,47N,14W	Moniteau			x	x			B			
Trib. to Factory Cr.	C	0.9	Mouth	29,47N,14W	Moniteau			x	x			B	x		
Trib. to First Cr.	C	2.0	Mouth	28,45N,5W	Gasconade			x	x			B			
Trib. to Flat Cr.	C	2.2	Mouth	26,22N,28W	Barry			x	x			B			
Trib. to Flat Cr.	C	3.2	Mouth	15,45N,20W	Pettis			x	x			B	x		
Trib. to Flat Cr.	C	1.8	Mouth	18,45N,20W	Pettis			x	x			B			
Trib. to Flat Cr.	C	1.5	Mouth	18,45N,21W	Pettis			x	x			B			
Trib. to Flat Cr.	C	1.8	Mouth	24,45N,22W	Pettis			x	x			B			
Trib. to Flat Cr.	C	0.9	Mouth	10,44N,22W	Pettis			x	x			B			
Trib. to Flat Cr.	C	1.4	Mouth	19,44N,22W	Pettis			x	x			B			
Trib. to Flat Cr.	C	2.7	Mouth	07,43N,22W	Pettis			x	x			B			
Trib. to Flat Cr.	C	1.0	Mouth	14,43N,23W	Pettis	Benton		x	x			B			
Trib. to Fleck Cr.	C	2.5	Mouth	28,32N,33W	Barton			x	x			B			
Trib. to Fourche a DuClos Cr.	C	1.0	Mouth	31,38N,7E	Ste. Genevieve			x	x			B			
Trib. to Frene Cr.	C	0.5	Mouth	10,45N,5W	Gasconade			x	x			B			
Trib. to Gasconade R.	C	2.2	Mouth	24,44N,7W	Gasconade	Osage		x	x			B			
Trib. to Gasconade R.	C	0.5	26,29N,16W	34,29N,16W	Wright			x	x			B			
Trib. to Gasconade R.	C	1.4	Mouth	2,38N,9W	Phelps			x	x			B			
Trib. to Gizzard Cr.	C	1.0	Mouth	1,29N,10E	Bollinger			x	x			B			
Trib. to Goose Cr.	C	3.0	Mouth	18,28N,25W	Lawrence			x	x			B			
Trib. to Goose Pond Ditch	C	1.0	Mouth	4,26N,9E	Stoddard			x	x			B			
Trib. to Greasy Cr.	C	2.0	Mouth	15,21N,29W	Barry			x	x			B			
Trib. to Greedy Cr.	P	0.2	Mouth	Hwy B	Gasconade			x	x			B			

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Trib. to Grindstone Cr.	C	1.0	Mouth	9,57N,30W	DeKalb			x	x			B			
Trib. to Hamilton Cr.	C	0.9	Mouth	29,40N,1W	Washington			x	x			B			
Trib. to Haw Cr.	P	1.0	Mouth	19,43N,19W	Morgan			x	x			B			
Trib. to Haw Cr.	C	1.0	Mouth	26,43N,20W	Benton			x	x			B			
Trib. to Hazel Cr.	C	0.8	Mouth	22,36N,1E	Washington			x	x			B			
Trib. to Heaths Cr.	C	3.9	Mouth	28,47N,22W	Pettis			x	x			B			
Trib. to Heaths Cr.	C	2.0	Mouth	20,47N,22W	Pettis			x	x			B			
Trib. to Heaths Cr.	C	1.1	Mouth	08,47N,21W	Pettis			x	x			B			
Trib. to Heaths Cr.	C	0.5	Mouth	32,48N,21W	Pettis			x	x			B			
Trib. to Henry Cr.	C	1.2	Mouth	31,44N,21W	Pettis	Benton		x	x			B			
Trib. to Hess Cr.	C	0.7	Mouth	18,47N,21W	Pettis			x	x			B			
Trib. to Hickory Cr.	C	0.6	Mouth	9,60N,25W	Grundy			x	x			B			
Trib. to Higgins Cr.	C	0.5	Mouth	34,43N,12W	Cole			x	x			B			
Trib. to High Cr.	C	2.0	Mouth	14,66N,41W	Atchison			x	x			B			
Trib. to Hinch Cr.	C	1.0	Mouth	34,39N,2W	Crawford			x	x			B			
Trib. to Hinkson Cr.	C	0.5	Mouth	2,49N,12W	Boone			x	x			B			
Trib. to Hogan Fk.	C	2.0	Mouth	13,44N,27W	Johnson			x	x			B			
Trib. to Hogles Cr.	C	1.0	Mouth	26,39N,24W	St. Clair			x	x			B			
Trib. to Hogles Cr.	C	3.3	Mouth	22,37N,23W	Hickory			x	x			B			
Trib. to Hogles Cr.	C	1.1	Mouth	32,39N,23W	Benton			x	x			B			
Trib. to Honey Run	C	0.8	Mouth	6,38N,15W	Camden			x	x			B			
Trib. to Horse Cr.	C	2.0	Mouth	29,32N,28W	Dade			x	x			B			
Trib. to Howell Cr.	C	1.4	Mouth	12,23N,7W	Howell			x	x			B			
Trib. to Huzzah Cr.	C	1.2	Mouth	26,38N,3W	Crawford			x	x			B			
Trib. to Huzzah Cr.	C	1.6	Mouth	29,37N,2W	Crawford			x	x			B			
Trib. to Huzzah Cr.	C	1.2	Mouth	17,35N,2W	Crawford			x	x			B			
Trib. to Huzzah Cr.	C	1.0	Mouth	4,35N,2W	Crawford			x	x			B			
Trib. to Indian Cr.	C	0.6	Mouth	6,40N,1E	Franklin			x	x			B			
Trib. to Indian Cr.	C	2.5	Mouth	15,40N,1W	Washington			x	x			B			
Trib. to Indian Cr.	C	1.1	27,35N,4E	27,35N,04E	St. Francois			x	x			B			
Trib. to Indian Cr.	C	0.3	Mouth	07,35N,01W	Washington			x	x				x		
Trib. to Indian Cr.	P	0.9	Mouth	27,35N,4E	St. Francois			x	x			B			
Trib. to Indian Cr.	P	0.1	Mouth	35,42N,21W	Benton			x	x			B			
Trib. to Indian Cr.	C	1.9	Mouth	34,42N,20W	Benton			x	x			B			
Trib. to Indian Cr.	C	0.2	Mouth	12,40N,01W	Franklin			x	x			B			
Trib. to Indian Cr.	C	0.9	Mouth	21,40,9W	Maries			x	x			B			
Trib. to Indian Cr.	C	0.4	Mouth	32,38N,03W	Washington			x	x			B			
Trib. to Indian Cr.	C	0.5	Mouth	6,38N,1E	Washington			x	x			B	x		
Trib. to James Cr.	C	1.0	Mouth	22,35N,3W	Crawford			x	x			B			
Trib. to Jenkins Cr.	C	1.8	7,27N,29W	20,27N,29W	Jasper	Newton		x	x			B			
Trib. to Joachim Cr.	C	1.0	Mouth	10,39N,4E	Jefferson			x	x			B			
Trib. to Joachim Cr.	C	2.3	Mouth	13,40N,4E	Jefferson			x	x			B	x		
Trib. to Johns Cr.	C	1.0	Mouth	23,36N,1W	Washington			x	x			B			
Trib. to Knobby Cr.	P	0.9	Mouth	35,40N,20W	Benton			x	x			B			
Trib. to L. Apple Cr.	C	0.5	Mouth	18,33N,12E	Cape Girardeau			x	x			B			
Trib. to L. Beaver Cr.	C	2.3	Mouth	15,37N,8W	Phelps			x	x				x		
Trib. to L. Berger Cr.	C	1.0	Mouth	4,45N,4W	Gasconade			x	x			B			

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Trib. to L. Berger Cr.	C	0.5	Mouth	18,45N,4W	Gasconade			x	x			B	x		
Trib. to L. Boeuf Cr.	C	0.3	Mouth	15,44N,2W	Franklin			x	x			B			
Trib. to L. Boeuf Cr.	C	1.2	Mouth	11,44N,2W	Franklin			x	x			B			
Trib. to L. Bourbeuse R.	C	1.2	Mouth	4,39N,4W	Crawford			x	x			B			
Trib. to L. Bourbeuse R.	C	2.0	Mouth	4,39N,4W	Crawford			x	x					x	
Trib. to L. Bourbeuse R.	C	0.1	Mouth	04,39N,07W	Maries			x	x			B			
Trib. to L. Bourbeuse R.	P	1.4	Mouth	02,39N,04W	Crawford			x	x			B			
Trib. to L. Clear Cr.	C	1.0	Mouth	2,36N,28W	St. Clair			x	x			B			
Trib. to L. Courtois Cr.	C	0.5	Mouth	2,39N,1W	Washington			x	x			B	x		
Trib. to L. Deer Cr.	C	0.4	Mouth	24,39N,21W	Benton			x	x			B			
Trib. to L. Dry Wood Cr.	C	1.3	Mouth	02,34N,32W	Vernon			x	x			B			
Trib. to L. Finley Cr.	P	2.0	Mouth	7,28N,17W	Webster			x	x			B			
Trib. to L. Indian Cr.	C	1.0	Mouth	26,40N,1E	Washington			x	x			B			
Trib. to L. Indian Cr.	C	0.5	Mouth	15,40N,1E	Franklin	Washington		x	x			B	x		
Trib. to L. Indian Cr.	C	0.5	Mouth	26,50N,1E	Washington			x	x			B	x		
Trib. to L. Maries Cr.	C	1.5	Mouth	30,42N,10W	Osage			x	x			B			
Trib. to L. Maries R.	C	0.5	Mouth	3,40N,10W	Maries			x	x			B			
Trib. to L. Maries R.	C	0.9	Mouth	11,39N,11W	Maries			x	x			B			
Trib. to L. Maries R.	C	1.8	Mouth	09,40N,10W	Maries			x	x			B			
Trib. to L. Maries R.	C	0.1	Mouth	09,38N,11W	Maries			x	x			B			
Trib. to L. Mill Cr.	C	0.6	Mouth	19,38N,21W	Hickory			x	x			B			
Trib. to L. Moniteau Cr.	C	3.0	Mouth	11,45N,15W	Moniteau			x	x			B			
Trib. to L. Muddy Cr.	C	2.9	Mouth	06,46N,22W	Pettis			x	x			B			
Trib. to L. Muddy Cr.	C	2.5	Mouth	04,46N,22W	Pettis			x	x			B			
Trib. to L. Muddy Cr.	C	1.0	Mouth	14,46N,22W	Pettis			x	x			B			
Trib. to L. N. Fk. Spring R.	C	1.2	Mouth	29,31N,32W	Barton			x	x			B			
Trib. to L. Rocky Cr.	C	1.0	Mouth	1,28N,3W	Shannon			x	x			B			
Trib. to L. Sandy Cr.	C	2.1	Mouth	Sur 1686,51N,1W	Lincoln			x	x			B			
Trib. to L. Splice Cr.	C	1.0	Mouth	19,47N,14W	Moniteau			x	x			B			
Trib. to L. Tavern Cr.	C	1.1	Mouth	27,40N,11W	Maries			x	x			B			
Trib. to L. Tavern Cr.	C	1.3	Mouth	15,40N,11W	Maries			x	x			B			
Trib. to L. Tavern Cr.	C	1.2	Mouth	22,40N,11W	Maries			x	x			B			
Trib. to L. Tebo Cr.	C	1.5	Mouth	30,42N,22W	Benton			x	x			B			
Trib. to L. Tebo Cr.	C	0.9	Mouth	21,42N,22W	Benton			x	x			B			
Trib. to L. Turkey Cr.	C	1.4	Mouth	3,39N,22W	Benton			x	x			B			
Trib. to L. Weaubleau Cr.	C	0.5	Mouth	12,36N,23W	Hickory			x	x			B			
Trib. to La Barque Cr.	P	1.0	Mouth	4,42N,3E	Jefferson			x	x			B			
Trib. to Labadie Cr.	P	1.6	Mouth	6,43N,2E	Franklin			x	x			B			
Trib. to Labadie Cr.	C	0.5	Mouth	1,43N,1E	Franklin			x	x					x	
Trib. to Labadie Cr.	C	1.0	Mouth	32,44N,2E	Franklin			x	x			B			
Trib. to Lake Cr.	C	1.2	Mouth	17,43N,20W	Benton			x	x			B			
Trib. to Lake Cr.	C	0.6	Mouth	09,43N,20W	Benton			x	x			B			
Trib. to Lake Cr.	C	4.0	Mouth	02,43N,20W	Pettis	Benton		x	x			B			
Trib. to Lake Niangua	C	0.7	Mouth	19,37N,17W	Camden			x	x			B			
Trib. to Lake of Ozarks	C	1.0	Mouth	17,40N,19W	Camden			x	x			B			
Trib. to Lake of Ozarks	C	0.8	Mouth	5,39N,19W	Camden			x	x			B			
Trib. to Lake of Ozarks	C	0.7	Mouth	11,39N,19W	Camden			x	x			B			

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Trib. to Lick Cr.	C	1.2	Mouth	34,39N,4W	Crawford		x	x				B			
Trib. to Lick Log Cr.	C	1.0	Mouth	33,29N,8E	Bollinger		x	x				B			
Trib. to Lindley Cr.	C	3.0	Mouth	34,35N,20W	Dallas		x	x				B			
Trib. to Little Cr.	C	1.0	Mouth	18,24N,15W	Ozark		x	x				B			
Trib. to Lk. Wappapello	P	0.5	Mouth	8,27N,7E	Wayne		x	x				B			
Trib. to Lk. Wappapello	C	0.5	8,27N,7E	9,27N,7E	Wayne		x	x				B			
Trib. to Logan Cr.	C	1.0	Mouth	28,44N,13W	Cole		x	x				B			
Trib. to Long Br.	C	0.4	Mouth	07,45N,23W	Pettis		x	x				B			
Trib. to Lost Cr.	C	1.0	Mouth	18,37N,1E	Washington		x	x				B			
Trib. to Lost Cr.	C	1.0	Mouth	21,37N,1W	Washington		x	x				B			
Trib. to Lost Cr.	C	0.5	Mouth	13,37N,1E	Washington		x	x				B	x		
Trib. to Loure R.	C	4.0	Mouth	20,50N,7W	Audrain		x	x				B			
Trib. to Macks Cr.	C	1.0	Mouth	18,37N,18W	Camden		x	x				B			
Trib. to Macks Cr.	C	1.0	Mouth	6,37N,18W	Camden		x	x				B			
Trib. to Marble Cr.	C	0.5	Mouth	18,32N,5E	Madison		x	x				B			
Trib. to Marble Cr.	C	1.5	Mouth	22,33N,4E	Iron		x	x				B			
Trib. to Maries R.	C	0.4	Mouth	18,38N,10W	Maries		x	x				B			
Trib. to Maries R.	C	0.7	Mouth	14,38N,11W	Maries		x	x				B			
Trib. to Maries R.	C	1.7	Mouth	9,39N,10W	Maries		x	x				B			
Trib. to Maries R.	C	0.5	Mouth	06,39N,10W	Maries		x	x				B			
Trib. to Maries R.	C	2.5	Mouth	21,42N,10W	Osage		x	x				B			
Trib. to Maries R.	P	0.5	Mouth	12,41N,10W	Osage		x	x				B	x		
Trib. to Massey Cr.	C	3.3	Mouth	33,45N,33W	Cass		x	x				B	x		
Trib. to Maupin Br.	P	2.0	Mouth	26,47N,14W	Moniteau		x	x				B			
Trib. to Meramec R.	C	0.8	Mouth	29,38N,5W	Crawford		x	x				B			
Trib. to Meramec R.	C	1.4	Mouth	2,36N,5W	Crawford		x	x				B			
Trib. to Meramec R.	C	1.3	Mouth	23,36N,5W	Crawford		x	x				B			
Trib. to Meramec R.	C	1.5	Mouth	27,36N,5W	Crawford		x	x				B			
Trib. to Meramec R.	C	2.0	Mouth	30,36N,4W	Crawford		x	x				B			
Trib. to Meramec R.	C	1.0	Mouth	26,37N,5W	Crawford		x	x				B			
Trib. to Meramec R.	C	1.2	Mouth	8,37N,5W	Crawford		x	x				B			
Trib. to Meramec R.	C	2.4	Mouth	2,37N,5W	Crawford		x	x				B			
Trib. to Middle Big Cr.	C	3.6	Mouth	Lake Harrisonville	Cass		x	x				B			
Trib. to Mill Cr.	C	1.8	Mouth	14,37N,15W	Camden		x	x				B			
Trib. to Mill Cr.	C	1.0	Mouth	33,51N,1W	Lincoln		x	x				B			
Trib. to Mill Cr.	C	1.8	Mouth	13,66N,38W	Nodaway		x	x				B			
Trib. to Mill Cr.	C	0.3	Mouth	14,37N,21W	Hickory		x	x				B			
Trib. to Mill Cr.	C	0.6	Mouth	9,37N,21W	Hickory		x	x				B			
Trib. to Mill Cr.	C	0.1	Mouth	10,40N,08W	Maries		x	x				B			
Trib. to Mill Cr.	C	0.5	Mouth	26,36N,3E	Washington		x	x				B	x		
Trib. to Mine a Breton Cr.	C	0.4	Mouth	24,37N,2E	Washington		x	x				B			
Trib. to Mineral Br.	C	0.5	Mouth	16,44N,15W	Moniteau		x	x				B			
Trib. to Mineral Cr.	C	1.0	Mouth	18,44N,25W	Johnson		x	x				B			
Trib. to Mineral Fk.	C	2.0	Mouth	33,39N,3E	Washington		x	x				B			
Trib. to Missouri R.	P1	3.0	Mouth	21,44N,1E	St. Charles		x	x				B			
Trib. to Missouri R.	C	3.1	Mouth	07,44N,01W	Franklin		x	x				B			
Trib. to Missouri R.	C	5.3	Mouth	14,51N,23W	Saline		x	x				B			

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Trib. to Moreau R.	C	0.5	Mouth	06,43N,12W	Cole		x	x					x		
Trib. to Moss Cr.	P	0.5	Mouth	12,52N,24W	Carroll		x	x				B			
Trib. to Mud Cr.	C	0.8	Mouth	12,55N,26W	Caldwell		x	x				B			
Trib. to Mud Cr.	C	2.0	Mouth	24,55N,26W	Caldwell		x	x				B			
Trib. to Mud Cr.	C	1.0	Mouth	12,55N,26W	Caldwell		x	x				B			
Trib. to Muddy Cr.	C	1.7	Mouth	10,46N,21W	Pettis		x	x				B	x		
Trib. to Muddy Cr.	C	1.9	Mouth	06,45N,22W	Pettis		x	x				B			
Trib. to Muddy Cr.	C	1.1	Mouth	32,46N,22W	Pettis		x	x				B			
Trib. to Muddy Cr.	C	1.0	Mouth	04,45N,22W	Pettis		x	x				B			
Trib. to Muddy Cr.	C	2.5	Mouth	24,46N,23W	Pettis		x	x						x	
Trib. to Muddy Cr.	C	2.0	Mouth	29,60N,22W	Grundy		x	x				B			
Trib. to Murphy Cr.	C	0.5	Mouth	4,36N,14W	Camden		x	x				B			
Trib. to Murphy Cr.	C	1.0	Mouth	34,37N,14W	Camden		x	x				B			
Trib. to N. Br. Wilsons Cr.	C	1.3	16,29N,22W	10,29N,22W	Greene		x	x				B			
Trib. to N. Br. Wilsons Cr.	C	0.5	Mouth	9,29N,22W	Greene		x	x				B	x		
Trib. to N. Fk. Cuivre R.	C	2.0	Mouth	25,51N,2W	Lincoln		x	x				B			
Trib. to N. Fk. Spring R.	C	5.3	Mouth	31,33N,30W	Barton		x	x				B			
Trib. to N. Fk. White R.	C	1.2	Mouth	34,23N,12W	Ozark		x	x				B			
Trib. to N. Indian Cr.	P	1.3	Mouth	19,24N,30W	Newton		x	x				B			
Trib. to N. Moreau Cr.	C	0.8	Mouth	23,44N,13W	Cole		x	x				B			
Trib. to N. Moreau Cr.	C	0.5	Mouth	8,44N,13W	Cole		x	x				B			
Trib. to N. Moreau Cr.	C	2.4	Mouth	33,45N,15W	Moniteau		x	x							
Trib. to N. Moreau Cr.	C	0.5	Mouth	4,44N,15W	Moniteau		x	x				B			
Trib. to N. Moreau Cr.	C	2.0	Mouth	2,44N,16W	Moniteau		x	x				B			
Trib. to N. Moreau Cr.	C	2.0	Mouth	12,44N,16W	Moniteau		x	x				B			
Trib. to N. Moreau Cr.	C	2.0	Mouth	18,44N,15W	Moniteau		x	x				B			
Trib. to N. Prong Jacks Fk.	C	2.3	Mouth	28,29N,8W	Texas		x	x				B	x		
Trib. to Niangua R.	C	1.2	Mouth	17,37N,17W	Camden		x	x				B			
Trib. to Nichols Cr.	C	1.3	Mouth	29,61N,37W	Holt		x	x				B			
Trib. to Nodaway R.	C	1.0	Mouth	13,60N,37W	Andrew		x	x				B			
Trib. to North Cut Ditch	C	2.0	Mouth	36,29N,14E	Scott		x	x	x			B			
Trib. to North Cut Ditch	C	4.0	Mouth	34,27N,14E	Scott		x	x	x			B			
Trib. to Old Town Br.	C	1.7	Mouth	01,36N,31W	Vernon		x	x				B			
Trib. to Onete Cr.	C	1.3	Mouth	16,35N,12E	Perry		x	x				B			
Trib. to Osage Fk.	P	3.0	Mouth	29,30N,17W	Webster		x	x				B			
Trib. to Osage R.	C	2.0	Mouth	9,43N,10W	Cole		x	x				B			
Trib. to Osage R.	C	0.8	Mouth	9,42N,12W	Cole		x	x				B			
Trib. to Panther Cr.	C	2.4	Mouth	23,57N,26W	Caldwell		x	x				B			
Trib. to Peno Cr.	C	1.0	19,55N,3W	30,55N,3W	Pike		x	x				B			
Trib. to Perche Cr.	C	2.0	Mouth	5,47N,13W	Boone		x	x						x	
Trib. to Perkins Cr.	C	2.0	Mouth	25,30N,8E	Bollinger		x	x				B			
Trib. to Pierce Cr.	C	0.9	Mouth	31,41N,02E	Franklin		x	x				B			
Trib. to Pierce Cr.	C	1.0	Mouth	06,40N,02E	Franklin		x	x				B			
Trib. to Pike Cr.	C	0.8	Mouth	32,27N,2W	Carter		x	x				B	x		
Trib. to Pippin Br.	C	1.5	Mouth	29,37N,20W	Hickory		x	x				B			
Trib. to Pippin Br.	C	0.5	Mouth	26,37N,20W	Hickory		x	x				B			

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Trib. to Platin Cr.	P	1.0	Mouth	13,39N,5E	Jefferson		x	x				B			
Trib. to Pond Cr.	C	1.9	35,38N,3E	11,37N,3E	Washington		x	x				B			
Trib. to Pond Cr.	C	1.0	Mouth	15,29N,8E	Bollinger		x	x				B			
Trib. to Possum Hollow	P	0.5	Mouth	22,27N,7E	Wayne		x	x				B			
Trib. to Possum Hollow	C	0.5	22,27N,7E	15,27N,7E	Wayne		x	x				B			
Trib. to Prairie Cr.	C	1.0	Mouth	24,52N,35W	Platte		x	x				B			
Trib. to Province Br.	C	1.0	Mouth	3,29N,25W	Lawrence		x	x				B			
Trib. to Pruett Cr.	C	1.0	Mouth	21,38N,5W	Crawford		x	x				B			
Trib. to Puncheon Cr.	C	1.5	Mouth	30,44N,5W	Gasconade		x	x				B			
Trib. to Pyatt Hollow	C	1.5	Mouth	24,36N,3W	Crawford		x	x				B			
Trib. to Raccoon Cr.	C	1.0	Mouth	9,61N,25W	Grundy		x	x				B			
Trib. to Red Oak Cr.	P	0.5	Mouth	35,42N,05W	Gasconade		x	x				B			
Trib. to Red Oak Cr.	C	1.9	35,42N,05W	27,42N,05W	Gasconade		x	x						x	
Trib. to Rings Cr.	C	1.0	Mouth	14,29N,4E	Wayne		x	x				B			
Trib. to Rings Cr.	C	0.5	Mouth	26,29N,4E	Wayne		x	x				B			
Trib. to Rockhouse Cr.	C	3.0	Mouth	34,23N,26W	Barry		x	x				B		x	
Trib. to S. Fk. Apple Cr.	C	0.8	Mouth	33,34N,10E	Perry		x	x				B			
Trib. to S. Fk. Blackwater R.	C	1.3	Mouth	3,46N,23W	Pettis		x	x				B			
Trib. to S. Fk. Blackwater R.	C	3.9	Mouth	18,46N,28W	Johnson		x	x				B			
Trib. to S. Fk. Brush Cr.	C	1.7	Mouth	33,35N,24W	Polk		x	x				B			
Trib. to S. Fk. N. Fabius R.	C	4.1	Mouth	30,67N,14W	Schuyler		x	x				B			
Trib. to S. Fk. Saline Cr.	P	2.0	Mouth	3,34N,9E	Perry		x	x				B			
Trib. to S. Fk. Salt R.	C	0.5	Mouth	35,52N,9W	Audrain		x	x				B			
Trib. to S. Fk. Spring R.	P	1.0	Mouth	34,22N,8W	Howell		x	x				B			
Trib. to S. Fk. Weaubleau Cr.	C	7.0	Mouth	25,36N,24W	St. Clair	Hickory	x	x						x	
Trib. to S. Flat Cr.	C	2.4	Mouth	24,43N,22W	Benton		x	x						x	
Trib. to S. Flat Cr.	C	1.1	Mouth	03,43N,21W	Pettis		x	x				B			
Trib. to S. Moreau Cr.	C	1.5	Mouth	28,43N,15W	Moniteau		x	x				B			
Trib. to S. Moreau Cr.	P	0.8	Mouth	31,43N,15W	Moniteau		x	x				B			
Trib. to S. Moreau Cr.	C	1.5	31,43N,15W	25,43N,16W	Moniteau		x	x				B			
Trib. to S. Moreau Cr.	C	0.7	Mouth	25,43N,14W	Cole		x	x				B			
Trib. to S. Moreau Cr.	C	0.5	Mouth	24,43N,13W	Cole		x	x				B			
Trib. to S. Moreau Cr.	C	1.5	Mouth	29,42N,15W	Miller		x	x							
Trib. to Salt Cr.	C	1.3	Mouth	17,38N,26W	St. Clair		x	x				B			
Trib. to Sandy Cr.	P	0.1	Mouth	33,42N,04E	Jefferson		x	x				B			
Trib. to Sandy Cr.	P	0.2	Mouth	32,42N,04E	Jefferson		x	x				B			
Trib. to Schawnee Spr. Br.	C	1.2	Mouth	33,35N,11E	Perry		x	x				B			
Trib. to Sellars Cr.	C	1.0	Mouth	6,36N,14W	Camden		x	x				B			
Trib. to Shaver Cr.	C	0.9	Mouth	28,46N,20W	Pettis		x	x				B			
Trib. to Shaver Cr.	C	1.3	Mouth	14,46N,20W	Pettis		x	x				B			
Trib. to Shaver Cr.	C	1.1	Mouth	06,45N,20W	Pettis		x	x				B			
Trib. to Shibboleth Cr.	C	1.3	Mouth	9,38N,3E	Washington		x	x						x	
Trib. to Shoal Cr.	C	1.0	Mouth	34,37N,2W	Crawford		x	x				B			
Trib. to Shoal Cr.	C	0.5	Mouth	34,37N,2W	Crawford		x	x				B			
Trib. to Shoal Cr.	P	1.0	Mouth	10,26N,32W	Newton		x	x				B			
Trib. to Silver Fk.	C	1.5	Mouth	19,51N,11W	Boone		x	x				B			

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Trib. to Silver Fk.	C	1.0	Mouth	28,50N,13W	Boone			x	x			B			
Trib. to Spring Cr.	P	1.0	Mouth	18,26N,23W	Stone			x	x			B			
Trib. to Spring Cr.	C	1.1	Mouth	14,38N,08W	Phelps			x	x			B			
Trib. to Spring Cr.	P	0.8	14,38N,08W	10,38N,08W	Phelps			x	x			B			
Trib. to Spring Cr.	C	0.7	Mouth	26,35N,10W	Phelps			x	x			B			
Trib. to Spring Fk.	C	2.5	Mouth	02,43N,21W	Pettis	Benton		x	x			B			
Trib. to Spring Fk.	C	0.7	Mouth	36,44N,21W	Pettis			x	x			B			
Trib. to Spring R.	C	5.0	Mouth	23,29N,33W	Jasper			x	x			B			
Trib. to Spring R.	C	2.7	Mouth	1,28N,28W	Lawrence			x	x			B			
Trib. to Spring R.	C	1.0	16,28N,28W	15,28N,28W	Lawrence			x	x			B			
Trib. to Spring R.	P	2.8	Mouth	5,28N,28W	Lawrence			x	x			B			
Trib. to St. Francis R.	C	1.0	Mouth	9,35N,4E	St. Francois			x	x			B			
Trib. to St. Francis R.	C	1.0	Mouth	33,31N,5E	Madison			x	x			B			
Trib. to St. John's Cr.	C	1.5	Mouth	18,43N,2W	Franklin			x	x			B			
Trib. to St. John's Cr.	C	2.9	Mouth	7,44N,1W	Franklin			x	x				x		
Trib. to Stahl Cr.	C	2.6	Mouth	22,29N,27W	Lawrence			x	x			B			
Trib. to Starks Cr.	C	0.8	Mouth	19,37N,20W	Hickory			x	x			B			
Trib. to Starks Cr.	C	1.1	Mouth	29,38N,20W	Hickory			x	x			B			
Trib. to Starks Cr.	C	0.5	Mouth	18,37N,20W	Hickory			x	x			B			
Trib. to Starks Cr.	C	1.9	Mouth	18,38N,20W	Hickory			x	x			B			
Trib. to Starks Cr.	C	1.0	Mouth	02,37N,21W	Hickory			x	x			B			
Trib. to Stockton Br.	C	2.0	Mouth	6,34N,26W	Cedar			x	x			B			
Trib. to Stouts Cr.	C	0.5	Mouth	6,33N,5E	Madison			x	x			B			
Trib. to Stouts Cr.	C	1.0	Mouth	6,33N,5E	Madison			x	x			B			
Trib. to Stouts Cr.	C	1.3	Mouth	36,34N,03E	Iron			x	x			B			
Trib. to Strobel Br.	C	0.5	Mouth	1,44N,14W	Cole			x	x			B			
Trib. to Strobel Br.	C	0.5	Mouth	36,45N,14W	Cole			x	x			B	x		
Trib. to Sweetwater Br.	C	1.0	Mouth	19,34N,7E	Madison			x	x			B			
Trib. to Tater Hill Cr.	C	2.0	Mouth	22,55N,24W	Carroll			x	x			B			
Trib. to Tavern Cr.	C	0.1	Mouth	01,44N,02E	Franklin			x	x			B			
Trib. to Third Cr.	C	1.0	Mouth	5,42N,6W	Gasconade			x	x			B			
Trib. to Third Cr.	C	0.7	Mouth	6,42N,6W	Gasconade			x	x			B			
Trib. to Thomas Cr.	C	0.5	Mouth	26,36N,20W	Dallas			x	x			B			
Trib. to Trib. M. Fk. Tebo Cr.	C	1.3	Mouth	36,44N,25W	Henry			x	x			B			
Trib. to Trib. to Wolf Cr.	C	0.8	Mouth	32,36N,6E	St. Francois			x	x			B			
Trib. To trib. to Flat Cr.	C	2.1	Mouth	13,45N,20W	Pettis			x	x			B			
Trib. to trib. to Heaths Cr.	C	1.5	Mouth	27,47N,22W	Pettis			x	x			B			
Trib. to Trib. to Weaubleau Cr.	C	0.8	Mouth	15,36N,23W	Hickory			x	x			B			
Trib. to Turkey Cr.	C	2.2	Mouth	2,31N,24W	Polk			x	x			B			
Trib. to Turkey Cr.	C	0.3	Mouth	09,38N,21W	Hickory			x	x			B			
Trib. to Turkey Cr.	C	2.4	Mouth	14,38N,21W	Hickory			x	x			B			
Trib. to Turkey Cr.	C	1.0	Mouth	23,38N,21W	Hickory			x	x			B			
Trib. to Turkey Cr.	C	0.5	Mouth	20,47N,21W	Pettis			x	x			B			
Trib. to Turkey Cr.	C	1.7	Mouth	33,39N,21W	Benton			x	x			B			
Trib. to Turkey Cr.	C	1.0	Mouth	29,57N,26W	Caldwell			x	x			B			
Trib. to Turkey Cr.	C	0.5	Mouth	17,59N,16W	Macon			x	x			B			

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Trib. to Turnback Cr.	P	1.0	Mouth	24,29N,26W	Lawrence			x	x			B			
Trib. to Twelve Mile Cr.	C	1.0	Mouth	6,31N,7E	Madison			x	x			B			
Trib. to Unnamed trib to Atwell Cr.	C	0.6	Mouth	07,38N,11W	Maries			x	x			B			
Trib. to W. Fk. Clear Cr.	C	0.8	Mouth	35,36N,30W	Vernon			x	x			B			
Trib. to W. Fk. Finney Cr.	C	0.8	Mouth	7,49N,21W	Saline			x	x			B			
Trib. to W. Fk. Lost Cr.	C	0.5	Mouth	13,28N,6E	Wayne			x	x			B			
Trib. to W. Fk. Lost Cr.	C	2.8	Mouth	Maysville Lake	DeKalb			x	x			B	x		
Trib. to W. Fk. Lost Cr.	C	2.6	Mouth	9,58N,31W	DeKalb			x	x			B			
Trib. to W. Fk. Niangua R.	P	1.5	Mouth	19,31N,18W	Webster			x	x			B			
Trib. to W. Fk. Postoak Cr.	C	1.4	Mouth	36,45N,27W	Johnson			x	x			B			
Trib. to W. Fk. Roubidoux Cr.	C	2.2	Mouth	33,31N,11W	Texas			x	x			B			
Trib. to W. Mill Cr.	C	0.8	Mouth	19,37N,3E	Washington			x	x						
Trib. to W. Muddy Cr.	P	0.5	Mouth	31,64N,24W	Mercer			x	x			B			
Trib. to Wade Cr.	C	2.0	Mouth	33,44N,25W	Henry			x	x			B			
Trib. to Wallace Cr.	P	1.8	Mouth	07,40N,06W	Gasconade			x	x			B			
Trib. to Wallen Cr.	P	1.0	Mouth	4,36N,3E	Washington			x	x			B			
Trib. to Wallen Cr.	C	1.5	4,36N,3E	32,37N,3E	Washington			x	x			B			
Trib. to Watery Fk.	C	1.0	Mouth	5,34N,4W	Dent			x	x			B			
Trib. to Weaubleau Cr.	C	0.5	Mouth	3,35N,23W	Hickory			x	x			B			
Trib. to Weaubleau Cr.	C	1.3	Mouth	02,35N,23W	Hickory			x	x			B			
Trib. to Weaubleau Cr.	C	1.3	Mouth	26,36N,23W	Hickory			x	x			B			
Trib. to Weaubleau Cr.	C	1.5	Mouth	23,36N,23W	Hickory			x	x			B			
Trib. to Weaubleau Cr.	C	0.8	Mouth	19,36N,23W	Hickory			x	x			B			
Trib. to Weidensaul Holl.	C	1.0	Mouth	35,23N,13W	Ozark			x	x			B			
Trib. to White Oak Cr.	C	0.5	Mouth	25,42N,13W	Cole			x	x			B			
Trib. to White Oak Cr.	C	6.3	Mouth	24,29N,28W	Lawrence			x	x			B			
Trib. to Whitewater R.	C	1.7	Mouth	3,30N,11E	Cape Girardeau			x	x			B			
Trib. to Whittenburg Cr.	C	1.0	Mouth	12,37N,4W	Crawford			x	x			B			
Trib. to Wildcat Cr.	C	2.0	Mouth	30,63N,32W	Gentry			x	x			B			
Trib. to Wildcat Cr.	C	2.0	Mouth	32,63N,33W	Nodaway			x	x				x		
Trib. to Williams Cr.	P	1.0	Mouth	Sur 256,30N,13E	Cape Girardeau			x	x			B			
Trib. to Willow Fk.	C	0.5	Mouth	27,45N,17W	Moniteau			x	x						
Trib. to Wolf Cr.	P	1.1	Mouth	32,36N,6E	St. Francois			x	x			B			
Trib. to Wolf Cr.	C	1.5	32,36N,6E	Sur 349,36N,6E	St. Francois			x	x			B			
Trib. to Workman Cr.	P	0.5	Mouth	13,45N,13W	Cole			x	x			B			
Trib. to Workman Cr.	C	0.8	Mouth	10,28N,22W	Greene			x	x			B	x		
Trib. to Yaddin Cr.	C	3.7	Mouth	12,37N,5W	Crawford			x	x			B			
Trib. to Yellow Cr.	C	1.0	Mouth	32,38N,26W	St. Clair			x	x			B			
Trinity Hollow	P	1.6	Mouth	13,38N,23W	Benton	Hickory		x	x			B			
Troesser Cr.	C	0.7	Mouth	18,44N,8W	Osage			x	x			B			
Troublesome Cr.	P	4.8	Mouth	15,59N,7W	Marion			x	x			B		x	
Troublesome Cr.	C	41.3	15,59N,7W	5,61N,10W	Marion	Knox		x	x			B	x		
Truitt Cr.	P	1.5	Mouth	23,28N,27W	Lawrence			x	x			B			
Truitt Cr.	C	6.4	23,28N,27W	32,29N,26W	Lawrence			x	x				x		
Tub Cr.	C	1.0	Mouth	31,56N,28W	Caldwell			x	x			B			
Tunas Br.	C	2.7	Mouth	33,36N,19W	Dallas			x	x			B			

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Tuque Cr.	P	5.4	Mouth	16,45N,1W	Warren			x	x			B	x		
Tuque Cr.	C	2.3	16,45N,1W	3,45N,1W	Warren			x	x			B			
Turkey Cr.	P	17.9	Mouth	05,38N,21W	Benton			x	x	x		B			
Turkey Cr.	C	15.9	Mouth	21,35N,25W	St. Clair	Cedar		x	x			A			
Turkey Cr.	P	6.0	Mouth	27,32N,24W	Polk			x	x			B			
Turkey Cr.	C	3.3	Mouth	3,53N,10W	Monroe			x	x			B			
Turkey Cr.	P	2.0	Mouth	32,33N,14E	Cape Girardeau			x	x			B			
Turkey Cr.	C	2.2	32,33N,14E	36,33N,13E	Cape Girardeau			x	x			B			
Turkey Cr.	C	1.5	Mouth	21,49N,2W	Lincoln			x	x			B	x		
Turkey Cr.	C	1.4	Mouth	Sur 3022,40N,2E	Washington			x	x			B			
Turkey Cr.	P	2.6	Mouth	16,22N,21W	Taney			x	x		x	B	x		
Turkey Cr.	C	4.0	16,22N,21W	4,21N,21W	Taney			x	x					x	
Turkey Cr.	C	9.9	Mouth	15,24N,15W	Ozark			x	x			B			
Turkey Cr.	C	2.6	Mouth	22,22N,16W	Ozark			x	x			B			
Turkey Cr.	C	1.5	Mouth	9,26N,15W	Douglas			x	x			B			
Turkey Cr.	C	4.5	Mouth	36,34N,5E	Madison			x	x			B			
Turkey Cr.	C	3.1	Mouth	34,27N,8E	Stoddard			x	x			B	x		
Turkey Cr.	P	7.7	State Line	35,28N,33W	Jasper			x	x			B			
Turkey Cr.	P	6.1	35,28N,33W	9,27N,32W	Jasper			x	x			A			
Turkey Cr.	P	2.4	Mouth	Hwy. 47	St. Francois			x	x			B			
Turkey Cr.	P	4.7	Mouth	14,53N,25W	Carroll			x	x			B			
Turkey Cr.	C	3.5	14,53N,25W	34,54N,25W	Carroll			x	x			B			
Turkey Cr.	C	5.8	05,38N,21W	22,38N,21W	Benton	Hickory		x	x			B			
Turkey Cr.	C	1.8	Mouth	26,62N,33W	Gentry			x	x			B			
Turkey Cr.	C	2.5	Mouth	33,57N,26W	Caldwell			x	x			B			
Turkey Cr.	C	14.4	Mouth	Hwy. 36	Chariton	Linn		x	x			B			
Turkey Cr.	C	3.5	Mouth	12,66N,17W	Putnam			x	x			B			
Turkey Cr.	C	2.4	Mouth	17,59N,16W	Macon			x	x			B			
Turkey Cr.	C	3.3	Mouth	3,44N,11W	Callaway			x	x			B			
Turkey Cr.	C	6.3	Mouth	14,47N,12W	Boone			x	x			A			
Turkey Cr.	C	2.9	Mouth	20,47N,21W	Pettis			x	x			B			
Turkey Cr.	C	1.7	Mouth	Sur 3243(3), 55N,5W	Ralls			x	x			B			
Turkey Cr.	P	1.0	Mouth	32,34N,8E	Madison			x	x			B			
Turkey Cr.	P	7.3	Mouth	21,30N,7E	Wayne			x	x			B			
Turnback Cr.	P	16.0	Mouth	35,30N,26W	Dade			x	x			A			
Turnback Cr.	P	19.9	35,30N,26W	24,28N,25W	Dade	Lawrence		x	x		x	A	x		
Turnbo Cr.	P	6.8	Mouth	16,30N,18W	Webster			x	x			B			
Turner Cr.	P	4.5	Mouth	33,29N,20W	Greene			x	x			B			
Turtle Spr. Br.	C	3.3	Mouth	23,45N,14W	Moniteau			x	x			B			
Twelve Mile Cr.	P	8.4	Mouth	12,31N,6E	Madison			x	x	x		A			
Twelve Mile Cr.	C	6.8	12,31N,6E	17,32N,7E	Madison			x	x	x		B	x		
Twomile Cr.	C	2.6	Mouth	28,36N,32W	Vernon			x	x			B			
Tyler Br.	C	1.7	36,35N,10E	34,35N,10E	Perry			x	x					x	
Tyree Cr.	P	0.8	12,40N,02E	11,40N,02E	Jefferson			x	x			B			
Upper Peavine Cr.	C	2.2	Mouth	15,40N,7W	Maries			x	x			B			
Van Meter Ditch	C	4.5	24,52N,22W	4,51N,22W	Saline			x	x			B			
Vance Br.	C	0.5	Mouth	05,39N,22W	Benton			x	x					x	

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Varney R. Ditch	P	14.0	12,17N,7E	34,19N,9E	Dunklin			x	x			B			
Varney R. Ditch	C	10.0	34,19N,9E	35,20N,9E	Dunklin			x	x			B			
Village Cr.	P	1.9	Mouth	Sur 3323,33N,7E	Madison			x	x			B			
Village Cr.	C	3.0	Sur 3323,33N,7E	34,34N,7E	Madison			x	x			B			
Virgin Cr.	C	1.2	Mouth	15,29N,9E	Bollinger			x	x			B			
W. Br. Clark Fk.	C	4.0	Mouth	8,47N,16W	Cooper			x	x			B			
W. Br. Crawford Cr.	C	14.7	Mouth	21,47N,30W	Jackson			x	x			B			
W. Br. Mill Cr.	C	1.8	8,37N,3E	18,37N,3E	Washington			x	x			A	x		
W. Br. Mill Cr.	C	1.0	18,37N,3E	19,37N,3E	Washington			x	x			B			
W. Cow Cr.	C	4.4	Mouth	11,51N,21W	Saline			x	x			B			
W. Elk Fk.	C	2.5	Mouth	05,44N,23W	Pettis			x	x			B			
W. Fk. Bear Cr.	P	2.8	Mouth	9,29N,6E	Wayne			x	x			B			
W. Fk. Bear Cr.	C	1.0	9,29N,6E	8,29N,6E	Wayne			x	x			B			
W. Fk. Bee Br.	C	6.5	Mouth	21,56N,17W	Chariton			x	x			B			
W. Fk. Benton Cr.	C	2.5	Mouth	7,36N,5W	Crawford			x	x			B			
W. Fk. Big Cr.	C	3.0	Mouth	3,22N,17W	Taney			x	x			B			
W. Fk. Big Cr.	P	18.0	9,63N,28W	34,65N,28W	Harrison			x	x			B			
W. Fk. Big Cr.	C	14.0	34,65N,28W	22,66N,28W	Harrison			x	x			B			
W. Fk. Big Cr.	C	1.5	31,31N,7E	36,31N,6E	Madison			x	x			B			
W. Fk. Big Cr.	P	1.4	Mouth	31,31N,7E	Madison			x	x			B			
W. Fk. Black R.	P	32.3	Mouth	25, 33N,03W	Reynolds			x	x	x		A			
W. Fk. Black R.	C	0.5	25,32N,3W	26,32N,3W	Reynolds			x	x			B			
W. Fk. Bull Cr.	C	4.0	Mouth	8,26N,20W	Christian			x	x			B			
W. Fk. Clear Cr.	C	14.0	Mouth	17,35N,30W	Vernon			x	x			B			
W. Fk. Crooked R.	P	6.6	Mouth	19,52N,27W	Ray		x	x	x			B			
W. Fk. Crooked R.	C	9.8	19,52N,27W	18,52N,28W	Ray			x	x			B			
W. Fk. Cuivre R.	P	42.4	11,49N,1W	Pike Co. Line	Lincoln	Montgomery		x	x			A			
W. Fk. Cuivre R.	C	23.9	6,50N,4W	14,51N,7W	Pike	Audrain		x	x			B			
W. Fk. Dry Wood Cr.	C	8.1	Mouth	State Line	Vernon			x	x			B			
W. Fk. East Cr.	C	4.8	Mouth	26,46N,33W	Cass			x	x			B			
W. Fk. Finney Cr.	C	4.0	20,49N,21W	6,49N,21W	Saline			x	x			B			
W. Fk. Fourche Cr.	P	9.7	Mouth	15,22N,1W	Ripley			x	x	x		B			
W. Fk. Fourche Cr.	C	2.0	15,22N,1W	8,22N,1W	Ripley			x	x	x		B			
W. Fk. Huzzah Cr.	P	5.5	1,34N,3W	22,34N,3W	Dent			x	x			A			
W. Fk. Huzzah Cr.	C	2.0	22,34N,3W	28,34N,3W	Dent			x	x			B			
W. Fk. Jones Cr.	P	0.7	Mouth	16,41N,03E	Jefferson			x	x			B			
W. Fk. Limestone Cr.	C	3.2	Mouth	10,30N,27W	Dade			x	x			B			
W. Fk. Locust Cr.	C	17.0	Hwy. 6	33,64N,21W	Sullivan			x	x			B	x		
W. Fk. Lost Cr.	P	4.4	Mouth	25,28N,7E	Wayne			x	x			B			
W. Fk. Lost Cr.	C	4.2	25,28N,6E	16,28N,6E	Wayne			x	x			B			
W. Fk. Lost Cr.	C	11.7	Mouth	27,58N,31W	DeKalb			x	x			B			
W. Fk. Medicine Cr.	C	5.5	Mouth	35,67N,22W	Putnam			x	x			B			
W. Fk. Niangua R.	P	7.0	33,32N,18W	33,31N,18W	Webster			x	x			B			
W. Fk. Post Oak Cr.	C	12.8	Mouth	22,45N,27W	Johnson			x	x			B	x		
W. Fk. Roark Cr.	C	3.5	15,23N,22W	7,23N,22W	Taney	Stone	x	x	x					x	
W. Fk. Roubidoux Cr.	P	3.0	4,31N,11W	17,31N,11W	Texas			x	x			B			

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W. Fk. Roubidoux Cr.	C	2.0	17,31N,11W	30,31N,11W	Texas			x	x			B			
W. Fk. Sni-a-bar Cr.	P	9.0	Mouth	Lk Lotawana Dam	Jackson			x	x			B			
W. Fk. Spring Cr.	P	2.5	Mouth	31,22N,8W	Howell			x	x			B			
W. Fk. Spring R.	C	8.7	31,22N,8W	10,22N,9W	Howell			x	x			A	x		
W. Fk. Tebo Cr.	C	6.8	Mouth	Hwy. 52	Henry			x	x			B			
W. Fk. Wakenda Cr.	P	3.3	Mouth	6,52N,25W	Carroll			x	x			B			
W. Fk. Wakenda Cr.	C	7.8	6,52N,25W	20,53N,26W	Ray			x	x			B			
W. High Cr.	C	2.8	Mouth	10,66N,41W	Atchison		x	x	x			B			
W. Honey Cr.	C	14.0	Mouth	34,65N,23W	Grundy	Mercer		x	x			B	x		
W. Locust Cr.	P	17.0	Mouth	25,62N,21W	Linn	Sullivan		x	x			B			
W. Locust Cr.	C	12.6	Mouth	7,66N,20W	Putnam			x	x			B	x		
W. Muddy Cr.	P	8.0	Mouth	6,63N,24W	Grundy	Mercer		x	x			B			
W. Muddy Cr.	C	8.5	6,63N,24W	31,65N,24W	Mercer			x	x			B			
W. Piney Cr.	P	13.1	Mouth	33,30N,11W	Texas			x	x			B			
W. Piney Cr.	C	2.0	33,30N,11W	5,29N,11W	Texas			x	x			B			
W. Tarkio Cr.	P	1.2	Mouth	14,65N,40W	Atchison		x	x	x			B		x	
W. Tarkio Cr.	C	9.6	14,65N,40W	State Line	Atchison		x	x	x			B			
W. Yellow Cr.	C	17.2	14,61N,19W	14,63N,19W	Sullivan			x	x			B		x	
W. Yellow Cr.	P	43.3	Mouth	14,61N,19W	Chariton	Sullivan		x	x			B	x	x	
Wachita Cr.	C	0.5	Mouth	28,34N,5E	Madison			x	x			B			
Wade Cr.	C	5.4	Mouth	9,43N,25W	Henry			x	x			B			
Wakenda Cr.	P	29.2	Mouth	4,52N,25W	Carroll			x	x			B			
Wakenda Cr.	C	10.6	4,52N,25W	33,54N,26W	Carroll			x	x			B			
Walkers Slough	PI	1.6	Mouth	6,57N,4W	Marion			x	x			B			
Walkers Slough	C	3.5	6,57N,4W	24,58N,5W	Marion			x	x			B			
Wallace Cr.	P	3.3	Mouth	05,40N,06W	Gasconade			x	x			B			
Wallace Cr.	C	1.9	05,40N,06W	07,40N,06W	Gasconade			x	x			B			
Wallen Cr.	P	1.4	Mouth	9,36N,3E	Washington			x	x			B			
Wallen Cr.	C	3.0	9,36N,3E	6,36N,3E	Washington			x	x			B	x		
Wallen Cr.	C	1.1	Mouth	27,36N,3E	Washington			x	x			B			
Walnut Br.	C	2.7	Mouth	12,45N,23W	Pettis			x	x			B			
Walnut Cr.	C	10.1	Mouth	28,39N,33W	Bates			x	x			B			
Walnut Cr.	P	2.3	Mouth	17,36N,28W	St. Clair	Cedar		x	x			B			
Walnut Cr.	C	3.6	25,45N,21W	2,44N,21W	Pettis			x	x			B			
Walnut Cr.	C	2.3	Mouth	03,34N,30W	Vernon			x	x			B			
Walnut Cr.	C	3.5	Mouth	20,55N,14W	Randolph			x	x					x	
Walnut Cr.	C	15.7	Mouth	2,61N,17W	Macon	Adair		x	x			B			
Walnut Cr.	P	1.3	Mouth	25,45N,21W	Pettis			x	x			B			
Walnut Cr.	C	2.7	Mouth	27,47N,26W	Johnson			x	x			B			
Walnut Cr.	C	11.9	Mouth	14,46N,24W	Johnson			x	x			B	x		
Walnut Fk.	C	4.3	Mouth	22,62N,32W	Gentry			x	x			B			
Wamsley Cr.	C	1.7	Mouth	27,58N,30W	DeKalb			x	x			B	x		
Ward Br.	P	3.3	Mouth	13,28N,22W	Greene			x	x			B			
Wardens Br.	C	1.0	Mouth	18,46N,5W	Montgomery			x	x			B			
Warm Fk. Spring R.	P	13.8	State Line	25,23N,06W	Oregon		x	x	x			A	x		
Warm Fk. Spring R.	C	9.4	25,23N,06W	8,23N,6W	Oregon			x	x			B			
Warren Br.	P	1.5	State Line	36,26N,34W	Newton			x	x			B			

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Warren Br.	C	1.5	36,26N,34W	29,26N,33W	Newton			x	x			B			
Wash Cr.	P	1.2	Mouth	27,32N,8E	Madison			x	x			B			
Wash Cr.	C	0.5	27,32N,8E	26,32N,8E	Madison			x	x			B			
Watery Fk.	P	5.8	Mouth	12,34N,4W	Dent			x	x			B			
Watkins Cr.	C	1.4	Mouth	Hwy. 270	St. Louis City	St. Louis		x	x			B			
Watson Br.	C	1.0	Mouth	20,39N,1E	Washington			x	x			B			
Weaubleau Cr.	P	30.7	Mouth	03,35N,23W	St. Clair	Hickory		x	x			A	x		
Web Cr.	P	4.7	Mouth	5,28N,2E	Reynolds			x	x			B			
Web Valley	P	3.0	Mouth	11,28N,2E	Reynolds			x	x			B			
Weidensaul Hollow	C	3.0	Mouth	26,23N,13W	Ozark			x	x			B			
Weldon Br.	C	4.4	Mouth	8,63N,30W	Gentry			x	x			B			
Weldon R.	P	43.4	Mouth	State Line	Grundy	Mercer		x	x			B			
West Ditch	P	10.5	31,18N,10E	8,19N,10E	Dunklin			x	x			B			
West Elm Br.	P	1.1	Mouth	29,33N,33W	Barton			x	x			B			
West Fk.	P	1.0	Mouth	7,34N,23W	Polk			x	x			B			
West Fk.	C	3.0	Mouth	14,38N,5E	Jefferson	St. Francois		x	x			B			
West Fk.	C	6.8	Mouth	8,31N,31W	Barton			x	x			B			
West Prong Indian Cr.	C	2.0	6,25N,7E	36,26N,6E	Butler			x	x			B			
Wet Fk.	C	1.5	Mouth	5,28N,5E	Wayne			x	x			B			
Wet Fk.	P	2.4	Mouth	29,27N,6E	Wayne			x	x			B			
Wet Glaize Cr.	P	9.6	24,38N,15W	20,37N,14W	Camden			x	x			A	x		
Wheeler Cr.	C	2.4	Mouth	31,58N,30W	DeKalb			x	x			B			
Whetstone Cr.	P	12.2	Mouth	21,29N,13W	Wright			x	x	x		B			
Whetstone Cr.	P	1.5	Mouth	7,48N,6W	Montgomery			x	x			B			
Whetstone Cr.	C	10.8	7,48N,6W	1,48N,8W	Callaway			x	x			B			
Whippoorwill Cr.	C	2.3	Mouth	16,47N,5W	Montgomery			x	x			B			
Whisky Cr.	C	1.5	Mouth	18,43N,1W	Franklin			x	x			B			
Whitcomb Br.	C	2.5	Mouth	36,49N,1W	Lincoln			x	x			B			
White Br.	C	3.4	Mouth	32,36N,31W	Vernon			x	x			B			
White Cloud Cr.	P	13.2	Mouth	24,63N,36W	Andrew	Nodaway		x	x			B			
White Cloud Cr.	C	12.8	24,63N,36W	11,64N,36W	Nodaway			x	x			B			
White Cr.	C	3.5	9,24N,2W	4,24N,2W	Oregon			x	x			B			
White Oak Cr.	C	4.0	Mouth	30,42N,12W	Cole			x	x			B			
White Oak Cr.	C	3.9	Mouth	28,42N,28W	Henry			x	x			B			
White Oak Cr.	C	2.6	Mouth	33,50N,5W	Montgomery			x	x			B			
White Oak Cr.	C	18.0	Mouth	2,29N,28W	Jasper	Lawrence	x	x	x			A			
White Oak Cr.	C	9.0	Mouth	Hwy. 136	Harrison			x	x			B			
White Oak Hollow	C	2.0	Mouth	28,32N,5W	Dent			x	x			B			
Whitener Cr.	P	0.5	Mouth	28,32N,8E	Madison			x	x			B			
Whitener Cr.	C	1.5	28,32N,8E	22,32N,8E	Madison			x	x			B			
Whites Cr.	P	2.0	Mouth	26,39N,2W	Crawford			x	x			B			
Whites Cr.	C	1.0	26,39N,2W	35,39N,2W	Crawford			x	x			B			
Whites Cr.	C	3.0	Mouth	33,26N,15W	Douglas			x	x			B			
Whites Cr.	P	4.5	Mouth	9,24N,2W	Oregon			x	x			B			
Whitewater R.	P	35.0	Mouth	29,33N,11E	Cape Girardeau			x	x			A			
Whitewater R.	P	18.0	29,33N,11E	29,34N,9E	Bollinger	Perry		x	x	x		A	x		
Whitewater R.	C	5.9	29,34N,9E	10,34N,8E	Perry	St. Francois		x	x			B			

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Whitewater R.	P	5.0	31,28N,12E	6,28N,12E	Scott		x	x	x			B			
Whitewater R.	C	5.2	6,28N,12E	18,29N,12E	Scott	Cape Girardeau		x	x			B			
Whittenburg Cr.	P	2.8	Mouth	35,38N,4W	Crawford			x	x		x	B			
Whittenburg Cr.	C	5.0	35,38N,4W	1,37N,4W	Crawford			x	x			B			
Widow Cr.	C	1.6	Mouth	36,26N,5E	Butler			x	x			B			
Wiener Cr.	P	2.3	11,40N,12W	23,40N,12W	Miller			x	x			B			
Wiener Cr.	C	4.0	23,40N,12W	2,39N,12W	Miller			x	x			B			
Wieneke Br.	C	1.0	Mouth	9,44N,14W	Moniteau			x	x			B			
Wildcat Cr.	C	4.0	Mouth	3,62N,39W	Holt			x	x			B			
Wildcat Cr.	C	7.4	6,62N,32W	8,63N,33W	Gentry	Nodaway		x	x						
Wildcat Cr.	P	6.2	Mouth	6,62N,32W	Gentry			x	x			B			
Wildhorse Cr.	C	3.9	Mouth	29,45N,3E	St. Louis			x	x			B			
Wilkerson Cr.	C	7.3	Mouth	07,52N,32W	Clay			x	x			B		x	
Wilkerson Ditch	C	4.0	9,23N,16E	28,24N,16E	Mississippi			x	x			B			
Williams Cr.	P	5.2	Mouth	11,42N,21W	Benton			x	x	x		B			
Williams Cr.	P	9.8	Mouth	Sur 202,31N,13E	Cape Girardeau			x	x			B			
Williams Cr.	C	2.0	Sur 202,31N,13E	Sur 202,31N,13E	Cape Girardeau			x	x			B			
Williams Cr.	C	4.7	Mouth	18,27N,5E	Wayne			x	x					x	
Williams Cr.	P	1.0	Mouth	28,28N,27W	Lawrence			x	x		x	A			
Williams Cr.	P	8.5	28,28N,27W	34,28N,26W	Lawrence			x	x			A			
Williams Cr.	C	1.5	34,28N,26W	35,28N,26W	Lawrence			x	x			B			
Williams Cr.	C	3.4	11,42N,21W	05,42N,20W	Benton			x	x			B			
Williams Cr.	P	1.0	Mouth	Sur 880,44N,5E	St. Louis			x	x			B			
Williams Cr.	C	9.1	Mouth	21,53N,30W	Clay			x	x			B			
Willow Br.	C	3.4	Mouth	28,24N,26W	Barry			x	x			B			
Willow Br.	P	2.2	Mouth	2,25N,33W	Newton			x	x			B			
Willow Br.	C	2.1	Mouth	05,37N,31W	Vernon			x	x			B			
Willow Cr.	C	2.2	Mouth	19,23N,10W	Ozark	Howell		x	x			B			
Willow Cr.	C	6.5	Mouth	7,51N,27W	Ray			x	x			B			
Willow Cr.	C	1.0	Mouth	35,61N,32W	Gentry			x	x			B			
Willow Cr.	C	1.5	Mouth	35,55N,26W	Caldwell			x	x			B			
Willow Fk.	P	2.8	4,44N,16W	36,45N,17W	Moniteau			x	x			A			
Willow Fk.	C	6.8	36,45N,17W	29,45N,17W	Moniteau			x	x			B			
Wilmore Cr.	C	1.3	Mouth	8,30N,6E	Wayne			x	x			A			
Wilson Br.	C	2.4	Mouth	12,35N,30W	Vernon			x	x			B			
Wilson Run	C	2.5	Mouth	17,24N,23W	Stone			x	x			B			
Wilsons Cr.	P	14.0	Mouth	27,29N,22W	Christian	Greene		x	x			B			
Winigan Cr.	C	7.0	Mouth	5,59N,18W	Linn			x	x			B			
Winn Br.	C	5.0	Mouth	21,57N,13W	Macon			x	x			B			
Wolf Cr.	C	9.3	Mouth	16,28N,15W	Wright			x	x			B		x	
Wolf Cr.	C	3.0	Mouth	14,45N,1W	Warren			x	x			B			
Wolf Cr.	C	4.5	Mouth	18,49N,4W	Montgomery			x	x			B			
Wolf Cr.	C	3.7	Mouth	35,33N,10E	Cape Girardeau	Bollinger		x	x			B		x	
Wolf Cr.	C	2.0	Mouth	35,25N,5E	Butler			x	x			B			
Wolf Cr.	C	8.0	Mouth	28,36N,6E	St. Francois			x	x			B			
Wolf Cr.	C	4.2	Mouth	3,27N,10E	Stoddard			x	x					x	

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Wolf Cr.	C	5.2	Mouth	10,27N,08W	Texas	Howell		x	x			B			
Wolf Cr.	C	1.8	Mouth	32,48N,15W	Cooper			x	x			B			
Wolf Hole Lateral	C	9.5	Mouth	29,26N,16E	Mississippi			x	x					x	
Wolf Island Chute	P	11.8	5,24N,18E	11,23N,17E	Mississippi			x	x			B			
Woods Fk.	C	5.5	Mouth	3,25N,21W	Christian			x	x			B			
Woods Fk. Gasconade R.	P	12.4	Mouth	2,29N,16W	Wright			x	x			B			
Woods Fk. Gasconade R.	C	4.0	2,29N,16W	6,29N,16W	Wright	Webster		x	x			B			
Woolly Cr.	C	1.5	Mouth	7,23N,24W	Stone			x	x			B			
Woolsey Cr.	C	3.6	Mouth	8,36N,17W	Camden	Laclede		x	x			B			
Workman Br.	C	1.0	Mouth	15,28N,22W	Greene			x	x			B			
Workman Cr.	P	2.4	Mouth	24,45N,13W	Cole			x	x			B			
Wyaconda R.	P1	8.4	Mouth	15,61N,6W	Lewis			x	x			B		x	x
Wyaconda R.	P	42.2	15,61N,6W	26,65N,9W	Lewis	Clark		x	x			B		x	
Wynick Br.	C	1.3	Mouth	10,28N,09W	Texas			x	x			B			
Yadkin Cr.	C	4.0	Mouth	9,37N,4W	Crawford			x	x		x	B			
Yankee Br.	P	1.4	Mouth	10,36N,4W	Crawford			x	x		x	B			
Yankee Br.	C	1.0	10,36N,4W	10,36N,4W	Crawford			x	x			B			
Yantz Br.	C	1.2	Mouth	Sur 3236,32N,9E	Bollinger			x	x			B			
Yeater Br.	C	2.6	Mouth	30,48N,2W	Warren			x	x			B			
Yellow Cr.	C	2.0	Mouth	29,38N,26W	St. Clair			x	x			B			
Yellow Cr.	P	28.0	Mouth	20,56N,19W	Chariton			x	x			B			
Yoga Spring	P	0.8	Mouth	29,30N,07W	Texas			x	x			B			
Youngs Cr.	C	13.4	Mouth	11,52N,10W	Monroe	Audrain		x	x			B			
Youngs Cr.	C	1.9	Mouth	3,46N,9W	Callaway			x	x					x	
Zadie Cr.	C	5.3	Mouth	State Line	Harrison			x	x			B			
Zounds Cr.	C	3.0	Mouth	35,64N,33W	Gentry			x	x			B			

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Table J—Losing Streams

Note: The losing streams' beginning and ending locations in the FROM and TO columns are expressed in conventional "Section, Township, Range" format. For example, the FROM location for the first "Clear Creek" listing below should read as follows: "The southeast quarter of the northeast quarter of the northwest quarter of Section 10 in Township 25 North, Range 27 West."

<u>Stream Name</u>	<u>Counties</u>	<u>Miles</u>	<u>From</u>	<u>To</u>
Calton Cr.	Barry	2.5	SE SE SE 18 25N 26W	SE SE SE 25 25N 27W
Calton Cr.	Barry	4.0	NE NE SE 12 25N 26W	W SW NW 16 25N 26W
Clear Cr.	Barry	4.0	SE NE NW 10 25N 27W	SE SE SW 31 26N 27W
Trib. to Clear Cr.	Barry	0.5	SE SW SW 35 26N 28W	NE SW NE 35 26N 28W
L. Flat Cr.	Barry	3.0	SE SE NE 36 25N 27W	NW NE NW 01 24N 27W
L. Flat Cr.	Barry	3.0	NW NW NW 35 25N 27W	SE SE NE 36 25N 27W
Trib. to Clear Cr.	Barry	0.5	SE SE NW 02 25N 28W	SE NE SE 35 26N 28W
Trib. to Clear Cr.	Barry	1.0	NW SE SW 01 25N 28W	NE SE SW 36 26N 28W
Trib. to Clear Cr.	Barry Lawrence	1.0	SW SE SW 34 26N 28W	NW NW SE 27 26N 28W
Trib. to Clear Cr.	Barry	1.0	SE NE SE 09 25N 27W	SW NW NW 09 25N 27W
Trib. to Clear Cr.	Barry	1.0	NW SW NW 08 25N 27W	NW NW SW 05 25N 27W
Hudson Cr.	Barry	4.0	SW SW SE 13 25N 28W	SW NW NW 16 25N 28W
Hudson Cr.	Barry	3.0	SW SE SE 29 25N 27W	SW SW SE 13 25N 28W
Trib. to Hudson Cr.	Barry	1.0	NW NE SE 20 25N 27W	SE SW SE 19 25N 27W
Trib. to Hudson Cr.	Barry	1.0	NW SE SW 30 25N 27W	NE SW SW 19 25N 27W
Trib. to Hudson Cr.	Barry	1.0	SW NE NE 23 25N 28W	NE NW SW 13 25N 28W
Trib. to Hudson Cr.	Barry	1.0	SW NW SE 18 25N 27W	NE SW NW 13 25N 28W
Trib. to Hudson Cr.	Barry	1.0	NE NE NE 12 25N 28W	NE SE SE 11 25N 28W
Trib. to Hudson Cr.	Barry	1.0	NE NW SW 14 25N 28W	SW NE SE 10 25N 28W
Flat Cr.	Barry	3.0	SW SW NW 23 22N 28W	SW SE NW 06 22N 27W
Trib. to Flat Cr.	Barry	1.5	SE SW NE 09 22N 27W S	E SE NE 05 22N 27W
Trib. to Flat Cr.	Barry	1.0	NE NW SE 22 23N 27W	NW SE SE 21 23N 27W
Dry Hollow	Barry	7.0	SW SW SW 10 21N 28W	NE SE NE 33 22N 27W
Browning Hollow	Barry Lawrence	3.0	SE NW SE 36 26N 27W	NE SW NE 20 26N 26W
Kelly Cr.	Barry	5.0	SE SE SW 02 25N 27W	SW SW SE 31 26N 27W
Spring R.	Barry Lawrence	2.0	NE SE SE 36 26N 26W	NW SE NE 20 26N 26W
S. Indian Cr.	Barry Newton	2.0	NE SW NE 33 24N 29W	NW NW SE 31 24N 29W
Trib. to L. Crane Cr.	Barry	2.0	SW SW SW 08 25N 25W	NW SW SE 04 25N 25W
Trib. to L. Crane Cr.	Barry	1.5	NW NE NW 17 25N 25W	SW SW SE 04 25N 25W
Trib. to L. Crane Cr.	Barry	4.0	SE SE NW 32 26N 25W	SW NW SE 35 26N 25W
Trib. to L. Crane Cr.	Barry	2.0	NW SE NW 06 25N 25W	SW NE NE 05 25N 25W
Dodge Hollow	Barry	3.0	SW SE SW 09 25N 25W	NW SE NE 12 25N 25W
Trib. to Dodge Hollow	Barry	0.5	SE NW NW 19 25N 24W	NW NW NE 24 25N 25W
Trib. to Dodge Hollow	Barry	2.0	NW SW NE 25 25N 25W	SW SE SE 12 25N 25W
Trib. to Dodge Hollow	Barry	1.5	NW SE NE 22 25N 25W	NW NW NW 13 25N 25W
Trib. to L. Crane Cr.	Barry	0.5	SE SE NE 31 26N 25W	NE NE NW 05 25N 25W
Trib. to L. Crane Cr.	Barry	0.5	SE SW SW 05 25N 25W	SE SW SE 05 25N 25W
Trib. to L. Crane Cr.	Barry	0.5	SE SE NE 07 25N 25W	SW NW SE 08 25N 25W
Trib. to L. Crane Cr.	Barry	0.5	NW NW SW 08 25N 25W	NE SE NW 08 25N 25W
Trib. to L. Crane Cr.	Barry	0.5	NE SW SE 32 26N 25W	SW NE NW 04 25N 25W
Trib. to L. Crane Cr.	Barry	1.5	SE SE NW 09 25N 25W	NE NW SE 03 25N 25W
Trib. to L. Crane Cr.	Barry	0.5	SW NW SE 09 25N 25W	SW SE NE 09 25N 25W
Trib. to L. Crane Cr.	Barry	0.5	SE SW SW 10 25N 25W	NW NW SE 10 25N 25W
Capps Cr.	Barry	5.0	SW SW SW 03 24N 28W	NW SE NW 21 25N 28W
Trib. to Capps Cr.	Barry	1.0	NE SE SE 22 25N 28W	NW SE NE 28 25N 28W
Trib. to Capps Cr.	Barry	1.5	NW SW SE 23 25N 28W	NE NE SE 28 25N 28W
Trib. to Capps Cr.	Barry	1.5	NE NE SE 36 25N 28W	SE SE NW 35 25N 28W
Trib. to Capps Cr.	Barry	2.0	NE NW SE 05 24N 28W	SW SW SE 27 25N 28W
Trib. to Capps Cr.	Barry	4.0	NW NE SW 03 25N 28W	SW SE NW 12 25N 29W
Joyce Cr.	Barry	2.0	SW SE NE 10 24N 28W	NE SW NW 16 24N 28W
Joyce Cr.	Barry	2.0	SW SE SE 14 24N 28W	SW NW NE 16 24N 28W
Trib. to Joyce Cr.	Barry	2.5	SE SE NE 26 24N 28W	NW SE SW 15 24N 28W
Trib. to Joyce Cr.	Barry	1.0	NE SW NW 14 24N 28W	NW NW NW 15 24N 28W
Calls Hollow	Barry	2.0	NW SE SE 13 24N 28W	SW NW SW 16 24N 27W

Trib. to L. Flat Cr.	Barry	1.0	SE SW SE 12 24N 28W	NW NW NE 12 24N 28W
Trib. to L. Flat Cr.	Barry	1.5	NE NW SW 07 24N 27W	NW SW NW 06 24N 27W
Trib. to L. Flat Cr.	Barry	1.0	SW SE NE 06 24N 27W	SE SW SE 33 25N 27W
Poque Cr.	Barry	3.0	SE SE SE 36 24N 28W	NW NE SE 33 24N 28W
Trib. to Poque Cr.	Barry	1.5	NW SW SW 01 23N 28W	NE SW SW 35 24N 28W
Trib. to Poque Cr.	Barry	1.5	SW SE SE 02 23N 28W	SW SE SE 34 24N 28W
Trib. to Poque Cr.	Barry	1.0	SE SE SE 26 24N 28W	NE NE SW 35 24N 28W
Dog Hollow	Barry	3.0	NE SW NW 33 24N 27W	SW SE NE 26 24N 27W
Gunter Hollow	Barry	2.5	SW SE SE 01 23N 28W	SE SE NW 29 24N 27W
Gunter Hollow	Barry	4.0	NW SW SW 16 24N 27W	NW SE NW 12 24N 27W
Trib. to Gunter Hollow	Barry	1.0	SE SE SE 36 24N 28W	NE NE SE 31 24N 27W
Trib. to Gunter Hollow	Barry	1.5	SW SW SE 05 24N 27W	NW SE SE 09 24N 27W
Trib. to Gunter Hollow	Barry	1.0	SW SE SW 08 24N 27W	SE NE NW 16 24N 27W
Trib. to L. Flat Cr.	Barry	2.0	SE SW SW 21 25N 26W	NW SW SW 33 25N 26W
Trib. to L. Flat Cr.	Barry	1.5	SW NE SE 21 25N 26W	SE NW NE 32 25N 26W
Prairie Run Hollow	Barry	5.0	SW NE SW 01 25N 27W	SW SE SW 25 25N 27W
Trib. to Prairie Run Hollow	Barry	1.5	NE NE SE 07 25N 28W	NW SW NE 13 25N 27W
Trib. to L. Flat Cr.	Barry	2.0	NE SW SE 11 25N 27W	SW SE SW 13 25N 27W
Todd Hollow	Barry	3.0	SW NW NW 14 25N 27W	NW NE SE 26 25N 27W
Woodward Cr.	Barry	3.0	SE NE NE 11 23N 28W	SW SE SW 04 23N 28W
Trib. to Woodward Cr.	Barry	1.0	SW NE NW 14 23N 28W	SE NW NW 10 23N 28W
Trib. to Woodward Cr.	Barry	0.5	NE NW SW 09 23N 28W	SW SE SW 04 23N 28W
Zerbert Branch	Barry	4.0	SW SE SW 33 25N 28W	SE NE NW 24 25N 29W
Trib. to Zerbert Br.	Barry	2.0	NW NE NE 33 25N 28W	NW SW SE 29 25N 28W
Ledgerwood Hollow	Barry	0.5	NE NW SW 10 22N 25W	NE SE SE 09 22N 25W
Trib. to Mill Cr.	Barry	0.5	NW SE SE 10 22N 25W	NE NW NW 15 22N 25W
Trib. to Mill Cr.	Barry	0.5	NW SW SE 10 22N 25W	NE NW NW 15 22N 25W
Trib. to L. Bonne Femme Cr.	Boone	1.0	SE SE NW 01 47N 13W	SE NE NW 12 47N 13W
Trib. to Clear Cr.	Boone	1.0	SE SW SW 31 48N 12W	SW SE SW 30 48N 12W
Trib. to Gans Cr.	Boone	1.0	SE SW NE 06 47N 12W	NE NE NW 07 47N 12W
Slate Cr.	Boone	1.5	SE SW SE 34 46N 12W	NW NE SE 09 45N 12W
Trib. to Jamerson Cr.	Boone	2.0	NE SE SE 21 46N 12W	SW NE SW 29 46N 12W
Bonne Femme Cr.	Boone	4.0	NW NE NW 10 47N 12W	NE NE SW 20 47N 12W
Trib. to Bonne Femme Cr.	Boone	1.5	SW NE SE 29 47N 12W	SE SE NW 30 47N 12W
Trib. to Fowler Cr.	Boone	1.5	SW SW NW 13 46N 12W	SE NE SW 24 46N 12W
Bass Cr.	Boone	0.5	SW NW NE 28 47N 12W	SE NW NW 28 47N 12W
Fox Hollow Br.	Boone	1.5	NE NW SE 07 46N 12W	NW SW NW 12 46N 13W
Cane Cr.	Butler	4.0	NW NW SW 23 26N 04E	SE SE NE 36 26N 04E
Cane Cr.	Butler	1.0	NW NE SW 25 26N 04E	SE SE NE 36 26N 04E
Trib. to Missouri R.	Callaway	0.5	NE SE NE 11 44N 11W	SW SE SW 12 44N 11W
Trib. to Missouri R.	Callaway	0.5	NE SE NE 11 44N 11W	NE SE SW 12 44N 11W
Prairie Hollow	Camden	2.0	NW NW NW 27 38N 18W	NW NE NW 14 38N 18W
Trib. to Linn Cr.	Camden	1.0	NE NE SW 19 38N 16W	SE NW SW 17 38N 16W
Libby Hollow	Camden	2.0	SE SW SE 15 38N 17W	NE SW SW 02 38N 17W
Murphy Cr.	Camden	1.0	NE SW NW 33 37N 14W	NE NW NE 29 37N 14W
Conns Cr.	Camden	3.5	SW NW SE 26 37N 14W	NE SW SE 17 37N 14W
Deberry Cr.	Camden	2.0	SE SW SE 13 37N 14W	NW SW NW 26 37N 14W
Forbes Br.	Camden	2.5	NW SW SW 09 37N 16W	NE SE NW 11 37N 16W
Mill Cr.	Camden	4.5	SW NW NE 28 36N 15W	SW SW SE 35 37N 15W
Racetrack Hollow	Camden	5.5	NE NW NW 09 37N 16W	SW SW NW 35 38N 17W
Racetrack Hollow and trib.	Camden	1.5	SW SE NW 25 38N 17W	SW SW NW 35 38N 17W
Trib. to Racetrack Hollow	Camden	0.3	NW NW NW 31 38N 16W	SW SW NW 31 38N 16W
Sweezy Hollow	Carter	0.5	SW SW NE 31 27N 01E	SW SE SE 31 27N 01E
Bear Spring Hollow	Carter	1.0	SW NW NE 02 27N 01E	SW SW NE 03 27N 01E
Right Fk.	Carter	2.0	SE NE SE 02 27N 01E	NE NE SW 04 27N 01E
Carter Cr.	Carter	7.0	NE 03 27N 01E	NE NE NW 32 27N 01E
Trib. to S. Fk. Big Brushy Cr.	Carter	2.0	NE NE SW 01 27N 01E	NE NE NE 07 27N 02E
Middle Fk.	Carter	3.0	SW SW SW 28 26N 02E	NE NW SE 10 25N 02E
Middle Brushy Cr.	Carter Wayne	3.5	NW SE SW 21 27N 03E	NE SW NW 12 27N 03E
L. Pike Cr.	Carter	5.0	SW NE NW 18 26N 02W	NE NW NW 01 26N 02W
Buchanan Valley	Carter Reynolds	4.0	NW SW NE 20 28N 01E	NE NE SW 04 27N 01E
Big Brushy Cr.	Carter Wayne	3.5	NE NE SE 08 27N 03E	NE SW NW 12 27N 03E

Big Barren Cr.	Carter Ripley	16.0	NE NW SW 06 25N 02W	NW SE NW 28 25N 01E
Big Barren Cr.	Carter	1.5	NE SW NE 30 26N 02W	SE SW SE 32 26N 02W
Trib. to Snag Br.	Cedar	0.5	SE SW NE 31 34N 26W	SW NE SW 31 34N 26W
Terrell Cr.	Christian	2.5	NW SE NW 05 27N 23W	SW NE NE 03 27N 23W
Terrell Cr.	Christian	1.0	SW NW SE 01 27N 24W	SW NW SE 06 27N 23W
Tory Cr.	Christian	3.0	SE NW NW 12 25N 22W	NE NW SE 27 26N 22W
Finley Cr.	Christian	1.0	SE SW NW 13 27N 21W	SE NW SW 18 27N 20W
Finley Cr.	Christian	2.5	NW NW SE 18 27N 19W	SE NE NW 14 27N 20W
Trib. to Finley Cr.	Christian	0.7	SW SE SW 26 27N 21W	NW SW NW 26 27N 21W
Trib. to Finley Cr.	Christian	0.5	SE SE NW 21 27N 21W	SW NE NW 28 27N 21W
Trib. to Finley Cr.	Christian	1.5	SW SE NW 18 26N 21W	NE SE NW 01 26N 22W
Trib. to Finley Cr.	Christian	1.5	SW NE NW 24 27N 22W	SE SE NW 30 27N 21W
Trib. to Finley Cr.	Christian	1.0	NE SW SE 01 27N 21W	NW NW SE 12 27N 21W
Trib. to Finley Cr.	Christian	0.5	NE SE NE 26 27N 22W	SE SW NE 35 27N 22W
Elk Valley	Christian	0.5	NE SE NE 32 27N 21W	SE NE NW 32 27N 21W
Trib. to McCafferty Hollow	Christian	2.0	NE NE SW 22 27N 22W	NE SW NE 33 27N 22W
Trib. to Pickerel Cr.	Christian	1.5	NE SW SW 04 27N 24W	NW SW NE 33 28N 24W
Turnback Cr.	Christian	3.0	SE NE NE 17 27N 24W	SW SE NW 31 28N 24W
Saunders Valley	Christian	1.5	NW NW NE 09 27N 22W	SW SW NW 33 28N 22W
Trib. to Spring Cr.	Christian	3.0	NE NW NW 19 27N 23W	NW SW NW 36 27N 24W
Carter Hollow	Christian	2.0	NE SE SW 26 27N 20W	NE NE NW 22 27N 20W
Trib. to Hog Cr.	Christian	0.5	SE SE NW 09 26N 21W	SW SW NW 09 26N 21W
Trib. to E. Prong Goff Cr.	Christian	2.0	SW SE SW 13 25N 22W	SE SE NW 15 25N 22W
Trib. to E. Prong Goff Cr.	Christian	1.5	SW SE NE 23 25N 22W	NE NW SE 15 25N 22W
Trib. to W. Prong Goff Cr.	Christian Stone	2.0	SW NE NW 34 25N 22W	SE NE NW 29 25N 22W
Trib. to W. Prong Goff Cr.	Christian Stone	2.0	SW SE NW 27 25N 22W	NE SW NW 20 25N 22W
Silver Lake Br.	Christian Stone	2.0	SW NE SW 35 27N 23W	NE NE NE 14 26N 23W
Dry Crane Cr.	Christian Stone	5.0	SW SE NE 32 27N 23W	NE NW NE 34 26N 23W
Trib. to Dry Crane Cr.	Christian Stone	2.0	SE NE SE 34 27N 23W	NE SW NW 10 26N 23W
Wolfden Cr.	Christian	1.0	SW NW SE 35 27N 23W	NW SE SE 36 27N 23W
McCullah Hollow	Christian Stone	7.0	NE SW NW 21 27N 24W	NW NE SE 13 26N 24W
Terrell Cr.	Christian	2.0	NW NW SW 14 27N 24W	SE SW SW 01 27N 24W
Trib. to Terrell Cr.	Christian	0.3	NW SW NE 04 27N 23W	SE NW NE 04 27N 23W
Spring Cr.	Christian Stone	4.0	NE NE NE 26 27N 24W	SW NW NE 12 26N 24W
Trib. to Wilson Cr.	Christian	1.0	SW NW NW 31 28N 22W	SE SW SW 25 28N 23W
Green Valley Cr.	Christian	4.5	NW SW SW 27 27N 23W	SW NW SE 12 27N 23W
Trib. to Green Valley Cr.	Christian	1.5	NE SW SW 21 27N 23W	SE NE NW 27 27N 23W
Trib. to Green Valley Cr.	Christian	1.0	SE NE NE 21 27N 23W	NE SW SE 22 27N 23W
Trib. to Green Valley Cr.	Christian	1.0	NW SE SE 27 27N 23W	SW SW SE 22 27N 23W
Trib. to Green Valley Cr.	Christian	1.0	NE SW NW 35 27N 23W	NW SE NE 26 27N 23W
Trib. to Green Valley Cr.	Christian	0.5	NW SE SE 23 27N 23W	NW NE SE 23 27N 23W
Trib. to Green Valley Cr.	Christian	0.5	SE SW SW 24 27N 23W	SW NE NW 24 27N 23W
Trib. to Green Valley Cr.	Christian	0.5	SE SE SW 14 27N 23W	SW SW NW 13 27N 23W
Trib. to Green Valley Cr.	Christian	1.0	NE NW NW 14 27N 23W	NE NW NW 13 27N 23W
Trib. to Green Valley Cr.	Christian	0.5	NW SE SW 11 27N 23W	NW NE NE 14 27N 23W
Luce Br.	Christian	1.5	NW SW NW 21 27N 23W	NE SW SW 09 27N 23W
Luce Br.	Christian	1.0	SE NE NW 09 27N 23W	NW NE SE 04 27N 23W
Trib. to Luce Br.	Christian	0.5	SW NW SW 16 27N 23W	SE NW NW 16 27N 23W
Trib. to Luce Br.	Christian	1.5	NW NW NE 20 27N 23W	NW SW SW 09 27N 23W
Trib. to Luce Br.	Christian	1.0	NW NW NW 15 27N 23W	SE SW SE 04 27N 23W
Trib. to Luce Br.	Christian	0.5	SE NW NE 16 27N 23W	NE NE SE 09 27N 23W
Trib. to Spring Cr.	Christian	1.0	NW SW SW 20 27N 23W	NW NE NW 30 27N 23W
Trib. to James R.	Christian	0.5	SW NW SW 31 28N 22W	NE NW NE 06 27N 22W
Trib. to James R.	Christian	2.5	NW SW SE 36 28N 21W	NW NE SE 04 27N 21W
Trib. to James R.	Christian	0.5	NE NW SW 02 27N 21W	NW NW NE 10 27N 21W
Trib. to James R.	Christian	0.5	SW SW NW 11 27N 21W	SW NE NE 10 27N 21W
Trib. to James R.	Christian	1.5	SW SW NE 10 27N 21W	NW NE SE 04 27N 21W
Trib. to Hunt Br.	Christian	1.0	SW SW NE 36 28N 21W	NW NW SW 24 28N 21W
Farmer Br.	Christian Greene	2.0	SE SE NW 36 28N 21W	SE SW SW 27 28N 21W
Trib. to Farmer Br.	Christian	1.0	SE NW SW 35 28N 21W	NW NW NW 34 28N 21W
Trib. to James R.	Christian	2.0	NE SE NE 15 27N 22W	NE NE NE 03 27N 22W
Trib. to James R.	Christian	2.0	NE SE NW 09 27N 21W	NE SE NW 05 27N 21W

Trib. to James R.	Christian	1.5	SW SE SW 04 27N 22W	NE NE SE 32 28N 22W
Trib. to James R.	Christian	0.5	NW SW SW 34 28N 22W	SE NW NE 33 28N 22W
Trib. to James R.	Christian	0.5	SW NW NE 34 28N 22W	SW NW NW 34 28N 22W
Trib. to James R.	Christian	3.0	NW SE NW 15 27N 22W	NW NW SE 20 27N 22W
Trib. to James R.	Christian	1.0	NE SE NW 09 27N 22W	SE SW NW 16 27N 22W
Trib. to James R.	Christian	0.5	NE SE SE 08 27N 22W	NE SE NE 17 27N 22W
Trib. to James R.	Christian	0.5	SE NW SE 08 27N 22W	NW SE NE 17 27N 22W
Trib. to James R.	Christian	0.5	NW NW NE 21 27N 22W	NE NW SW 21 27N 22W
Trib. to James R.	Christian	1.5	NE SW SE 15 27N 22W	NW NW SW 21 27N 22W
McCafferty Hollow	Christian	1.0	NE NW SW 26 27N 22W	SW NE NE 33 27N 22W
McCafferty Hollow	Christian	0.5	SW NE NE 33 27N 22W	SW SE NW 33 27N 22W
Trib. to McCafferty Hollow	Christian	0.5	SW NW SW 22 27N 22W	SE SE NE 28 27N 22W
Trib. to McCafferty Hollow	Christian	1.0	NE NE SW 22 27N 22W	NE SW NW 27 27N 22W
Spout Spring Hollow	Christian	1.0	NE NW NW 20 27N 21W	NW NE NW 29 27N 21W
Spout Spring Hollow	Christian	0.5	NE SE SE 12 27N 22W	SW NE NW 18 27N 21W
Trib. to Spout Spring Hollow	Christian	0.5	SE SW NE 13 27N 22W	SE NE SW 18 27N 21W
Trib. to Spout Spring Hollow	Christian	0.5	SW NE SE 07 27N 21W	SE NE SW 18 27N 21W
Trib. to Spout Spring Hollow	Christian	0.5	NE NW NE 18 27N 21W	SE NE SE 18 27N 21W
Trib. to sink to James R.	Christian	2.0	SW SE NW 14 27N 22W	NE SE NW 02 27N 22W
Trib. to sink to James R.	Christian	1.0	SE SE NE 11 27N 22W	NW SW SE 02 27N 22W
Trib. to sink to James R.	Christian	0.5	NE SE SE 02 27N 22W	SW NW SE 02 27N 22W
Trib. to James R.	Christian	1.5	SE NW NW 07 27N 21W	SE NE NW 06 27N 21W
Trib. to James R.	Christian	3.0	NE SE NW 07 27N 21W	SE SE NW 31 28N 21W
Trib. to James R.	Christian	1.0	SE SW NW 08 27N 21W	NE SE NW 05 27N 21W
Trib. to James R.	Christian	0.5	SE SE NW 08 27N 21W	SW SW SE 05 27N 21W
Trib. to James R.	Christian	0.5	SE SW NE 08 27N 21W	SW SW SE 05 27N 21W
Trib. to James R.	Christian	1.0	NW SE SE 09 27N 22W	NE SW NW 16 27N 22W
Trib. to James R.	Christian	0.5	SE NW SE 09 27N 22W	SE NE NW 16 27N 22W
Trib. to James R.	Christian	0.5	NE NE SE 35 28N 22W	NW SW NE 35 28N 22W
Trib. to McCullah Hollow	Christian	0.5	SE NW SW 33 27N 24W	SE SW SE 34 27N 24W
Trib. to McCullah Hollow	Christian	1.5	SW NW SE 34 27N 24W	NE SW SE 34 27N 24W
Terrell Cr.	Christian	1.0	SE SW SE 15 27N 24W	SE SE SW 22 27N 24W
Terrell Cr.	Christian	1.0	NW NE NE 32 27N 24W	SW NW SE 28 27N 24W
Pedelo Cr.	Christian	0.5	NW NW NE 35 28N 19W	SE NW SW 26 28N 19W
Squaw Run Cr.	Christian	3.5	SW SW SW 20 27N 18W	SE SW NE 14 27N 19W
Trib. to Squaw Run Cr.	Christian	1.0	NW SE SE 19 27N 18W	NW NE NE 25 27N 19W
Trib. to Squaw Run Cr.	Christian	0.5	NW NE SW 19 27N 18W	SE SW SE 24 27N 19W
Trib. to Squaw Run Cr.	Christian	1.0	NE SE SE 13 27N 19W	SE SE SE 14 27N 19W
Trib. to James R.	Christian	1.0	SW SW SW 04 27N 22W	NE SW SE 32 28N 22W
Carter Hollow	Christian	0.5	NE NE NW 22 27N 20W	NW NW SW 15 27N 20W
Carter Hollow	Christian	0.5	NW SE SE 26 27N 20W	NE SE SW 26 27N 20W
Trib. to Mooney Hollow	Christian	0.5	SE NE NW 35 28N 20W	SE SE NE 34 28N 20W
Trib. to Big Hollow	Christian	1.5	SW NE NE 35 28N 20W	NW SW NE 02 27N 20W
Drainage to sinkhole	Christian	1.0	NW SW NE 01 27N 21W	SW NW NW 12 27N 21W
Trib. to Parched Corn Br.	Christian	1.0	NE SE NW 06 27N 20W	SE SE SW 06 27N 20W
Trib. to Parched Corn Br.	Christian	0.5	SE NE NW 07 27N 20W	SE SE SW 07 27N 20W
Trib. to Parched Corn Br.	Christian	0.5	NE SW SE 07 27N 20W	SE SE SW 07 27N 20W
Trib. to Parched Corn Hollow	Christian	1.0	NW SW SE 04 27N 20W	NW NW SW 08 27N 20W
Trib. to Parched Corn Hollow	Christian	0.5	NE SW NW 05 27N 20W	NW NE NW 08 27N 20W
Trib. to Parched Corn Hollow	Christian	3.0	NE NW NE 33 28N 20W	SW NE SE 05 27N 20W
Trib. to Parched Corn Hollow	Christian	1.0	NE SW NW 33 28N 20W	NW NE SE 32 28N 20W
Trib. to Parched Corn Hollow	Christian	1.5	NW NE SE 31 28N 20W	NE SE SW 32 28N 20W
Trib. to Finley Cr.	Christian	0.5	NW NW SE 20 27N 20W	NW SW SE 17 27N 20W
Trib. to Finley Cr.	Christian	0.5	NE SE SE 20 27N 20W	NE NE SE 17 27N 20W
Trib. to Finley Cr.	Christian	1.0	NW SW NW 30 27N 20W	SW NE NW 24 27N 21W
Trib. to Finley Cr.	Christian	1.0	NW SE SW 19 27N 20W	NE SE NW 24 27N 21W
Trib. to Finley Cr.	Christian	0.5	SE SW SE 13 27N 21W	SW NE NW 24 27N 21W
Trib. to Finley Cr.	Christian	0.5	NE NE NE 23 27N 21W	SW NW SE 14 27N 21W
Trib. to Finley Cr.	Christian	0.5	SE NE NE 27 27N 21W	SE SE SE 22 27N 21W
Trib. to Finley Cr.	Christian	1.0	SW SE SE 16 27N 21W	NW NE NE 28 27N 21W
Trib. to Finley Cr.	Christian	0.5	SE NE NE 15 27N 21W	SW SW NE 14 27N 21W
Trib. to Finley Cr.	Christian	0.5	NE NW NW 14 27N 21W	NE SE NW 14 27N 21W

Trib. to Finley Cr.	Christian	0.5	NE NE SW 11 27N 21W	SW NE NE 14 27N 21W
Trib. to Finley Cr.	Christian	0.5	NE NE SE 11 27N 21W	SW NE NE 14 27N 21W
Trib. to Finley Cr.	Christian	0.5	NW NW SE 12 27N 21W	SE NE NW 13 27N 21W
Trib. to Finley Cr.	Christian	0.5	NW SE SE 14 27N 22W	SE NW NW 24 27N 22W
Drainage to sinkhole	Christian	0.5	SE SE NW 28 27N 20W	NW SE SE 29 27N 20W
Drainage to sinkhole	Christian	0.5	NW NE NE 30 27N 20W	SW SW NE 30 27N 20W
Garrison Br.	Christian	0.5	SW SE SW 24 27N 21W	NW SW SW 24 27N 21W
Garrison Br.	Christian	0.2	SE NW SE 23 27N 21W	NE NE SW 23 27N 21W
Richwood Br.	Christian	0.5	NW SW NW 16 27N 21W	SE NE SE 17 27N 21W
Trib. to Richwood Br.	Christian	1.0	SW SW SW 10 27N 21W	SW SW SW 16 27N 21W
Elk Valley	Christian	5.0	SE NW NE 13 26N 21W	NE SW NW 33 27N 21W
Trib. to Elk Valley	Christian	2.5	NW NW NE 29 27N 20W	SW SW SE 35 27N 21W
Trib. to Elk Valley	Christian	0.5	NE NW NW 29 27N 20W	SE SW NW 29 27N 20W
Trib. to Elk Valley	Christian	1.0	SE NW SE 25 27N 21W	NE SW SE 36 27N 21W
Trib. to Elk Valley	Christian	0.2	SE NE NW 31 27N 20W	NW NE NW 31 27N 20W
Trib. to Elk Valley	Christian	0.5	SE SE SE 32 27N 21W	SE SW NW 33 27N 21W
Trib. to Elk Valley	Christian	1.0	SW SE NW 04 26N 21W	NW NW SE 33 27N 21W
Trib. to Elk Valley	Christian	1.0	NE SE NE 34 27N 21W	SE NW NW 03 26N 21W
Trib. to Elk Valley	Christian	0.5	NW NW SW 35 27N 21W	NW SE SE 34 27N 21W
Trib. to Elk Valley	Christian	1.0	SW SW SE 35 27N 21W	NE SW NE 03 26N 21W
Trib. to Elk Valley	Christian	0.5	SW SE NW 36 27N 21W	NE SW SW 36 27N 21W
Trib. to Elk Valley	Christian	1.0	NE NW NE 06 26N 20W	SW NE SE 36 27N 21W
Trib. to Elk Valley	Christian	2.0	SW NE NW 07 26N 20W	SW SW SE 35 27N 21W
Trib. to Elk Valley	Christian	0.5	SE NW SW 01 26N 21W	SW NW NW 01 26N 21W
Trib. to Elk Valley	Christian	1.5	NE NE SW 10 26N 21W	NE SW NE 03 26N 21W
Trib. to Elk Valley	Christian	1.5	NE NW NE 15 26N 21W	NE SW NE 03 26N 21W
Trib. to Elk Valley	Christian	0.5	NE NE NE 15 26N 21W	SW SE SE 10 26N 21W
Trib. to Elk Valley	Christian	1.0	NW SW NW 14 26N 21W	SW NW SE 11 26N 21W
Trib. to Elk Valley	Christian	0.5	SE SE NW 14 26N 21W	SW SE SE 11 26N 21W
Trib. to Elk Valley	Christian	0.2	NE NW SE 14 26N 21W	NW SE NE 14 26N 21W
Trib. to Elk Valley	Christian	0.5	SW NE SE 14 26N 21W	NW NE NE 14 26N 21W
Trib. to Elk Valley	Christian	0.5	NE NW SW 13 26N 21W	NW NW NW 13 26N 21W
Trib. to Elk Valley	Christian	0.5	NE NE NW 13 26N 21W	NW NW NW 13 26N 21W
Trib. to Elk Valley	Christian	0.5	SE NE SW 12 26N 21W	NW SE SE 11 26N 21W
Trib. to Elk Valley	Christian	0.5	SW NW NW 12 26N 21W	NW SE NE 11 26N 21W
Trib. to Elk Valley	Christian	0.5	SW NE SW 35 27N 21W	SW NW NW 02 26N 21W
Hog Cr.	Christian	2.0	SE SW NW 22 26N 21W	SE SE NE 08 26N 21W
Trib. to Hog Cr.	Christian	1.0	NW NE NW 15 26N 21W	SE NE NW 16 26N 21W
Trib. to Hog Cr.	Christian	0.5	SW NE NE 22 26N 21W	NE NE NW 22 26N 21W
Trib. to Hog Cr.	Christian	0.5	NE NE SE 15 26N 21W	SE SE SW 15 26N 21W
Trib. to Hog Cr.	Christian	0.5	SE SW NE 15 26N 21W	NW NW SW 15 26N 21W
Trib. to Hog Cr.	Christian	0.5	NE NE SE 09 26N 21W	SE SW SW 09 26N 21W
Trib. to Hog Cr.	Christian	0.5	SE NE SE 09 26N 21W	NW SW SE 09 26N 21W
Trib. to Hog Cr.	Christian	0.5	NE NE NW 21 26N 21W	NW SW NE 16 26N 21W
Trib. to Hog Cr.	Christian	1.0	SE NE SE 17 26N 21W	SE SW SW 09 26N 21W
Trib. to Hog Cr.	Christian	1.0	NW NE NE 09 26N 21W	NE NE NE 08 26N 21W
Trib. to Spring Cr.	Christian	1.0	NW NE SE 31 27N 23W	SW NW SW 06 26N 23W
Turnback Cr.	Christian	7.0	NW NE SW 20 27N 24W	NW NE NE 25 28N 25W
Woods Fk.	Christian	2.0	SW NE NW 30 26N 21W	SE SE NW 32 26N 21W
Trib. to Clarks Fk.	Cooper	1.5	NW SW NW 24 47N 16W	NW NW SW 14 47N 16W
Cherry Valley	Crawford	8.0	NE SW SW 08 36N 03W	NE SE SE 03 37N 03W
Trib. to Cherry Valley	Crawford	2.0	NE NE NE 13 36N 04W	NE SW NW 05 36N 03W
Trib. to Yadkin Cr.	Crawford	4.0	SE NW SE 24 37N 05W	SW NE NW 05 37N 04W
Whittenburg Cr.	Crawford	4.0	SE SE NE 34 37N 04W	SE SE NW 11 37N 04W
Black Jack Cr.	Crawford	2.5	NW SE NW 25 37N 04W	NE NE NW 28 37N 03W
Black Jack Cr.	Crawford	2.0	NW SE SW 35 37N 04W	NE SW NE 30 37N 03W
Dry Cr.	Crawford	11.5	NW NW NW 14 35N 03W	NE NE SW 14 37N 03W
Sinking Cr.	Dade	2.5	SW NW NE 12 30N 26W	NE SW NE 10 30N 26W
Fourmile Cr.	Dallas	0.5	NE NE 05 33N 18W	NE NE SW 32 34N 18W
Rocky Pond Hollow	Dent	3.0	NE NW SE 22 34N 06W	SW SW SE 08 34N 06W
Trib. to Simmons Br.	Dent	1.0	SW NE NE 22 34N 05W	NW NE NW 14 34N 05W
Trib. to Spring Cr.	Dent	1.0	SE SW NW 23 34N 06W	SW SE NE 14 34N 06W

Hyer Br.	Dent	1.0	SE SE NW 20 35N 07W	NE NE SW 17 35N 07W
Gladden Cr.	Dent Shannon	11.0	SE NE SW 05 32N 05W	SE SW SW 13 31N 06W
Dry Valley Cr.	Dent	7.0	NE SW NW 23 33N 05W	NW SE SW 13 34N 05W
Standing Rock Cr.	Dent	5.0	SW NW NE 30 33N 04W	NE NE SW 05 32N 05W
Orchard Mill Hollow	Dent	2.0	NW NW NE 32 33N 04W	SW SW NW 09 32N 04W
Black Oak Cr.	Dent Phelps	2.0	SE SW NE 10 34N 08W	SE SE NW 04 34N 08W
Hodge Cr.	Dent	2.5	SW SW NW 09 32N 04W	SE NW NW 28 32N 04W
Pankey Br.	Dent Shannon	3.0	SW NW NW 19 32N 04W	NW SE SW 06 31N 04W
Stringer Br.	Dent	2.0	NE NE SE 06 32N 04W	SW NW NW 19 32N 04W
Finn Br.	Dent Phelps	4.5	NE NE NE 06 35N 07W	SW NW SE 04 35N 08W
Minning Haw Hollow	Dent	1.5	NE NE SW 01 32N 04W	NW SE NE 14 32N 04W
Barren Fk.	Dent Shannon	9.0	SW SE NE 13 32N 04W	SE SE SE 18 31N 04W
Dry Fk.	Dent	8.0	NE NE NE 24 33N 07W	SW NE NE 14 34N 07W
Trib. to Dry Fk.	Dent	2.0	SW NE NW 09 33N 07W	SW NE NW 02 33N 07W
Pigeon Cr.	Dent	9.0	SW NE NW 31 33N 07W	SE SE NE 22 32N 07W
Rocky Pond Hollow	Dent	2.0	SW NE NE 21 34N 06W	SW SW SE 08 34N 06W
Norman Cr.	Dent Phelps	15.0	NW SW NE 07 35N 05W	SE NW SW 16 37N 06W
Dry Br.	Dent	3.0	NW SW SW 07 33N 03W	NW SW SW 09 33N 04W
Trib. to Dry Br.	Dent	3.5	SW NE SW 18 33N 03W	NE NW NE 16 33N 04W
Meramec R.	Dent	8.0	NW NW NW 34 33N 04W	NE SW SE 19 34N 04W
Stone Hill Br.	Dent	4.0	NW NW NW 31 34N 03W	NE NE NW 04 33N 04W
Horse Cr.	Dent	5.0	NW SE SW 32 35N 07W	NE NE NW 22 35N 08W
Dry Fk.	Dent Phelps	19.0	SW SE SE 19 35N 06W	NE SW SW 13 37N 07W
Big Cr.	Dent Reynolds	2.5	SE SE NE 24 32N 03W	SW SE SE 31 32N 02W
L. Sinking Cr.	Dent	2.0	NE SW NE 24 32N 03W	SW NW NE 26 32N 03W
Gorden Hollow	Dent	2.0	NW SE NE 13 32N 03W	NE SE SW 11 32N 03W
Roney Hollow	Dent	2.0	SE SE SE 13 32N 03W	SW NE SW 14 32N 03W
Prairie Cr.	Douglas	2.5	SW NW SE 16 26N 16W	SE SW SW 18 26N 16W
Bryant Cr.	Douglas	8.0	SE SW NE 23 27N 15W	SW SW SW 21 26N 14W
Browning Hollow	Douglas Ozark	2.5	SW NE NW 27 25N 14W	NE NE SE 01 24N 14W
Clifty Cr.	Douglas	5.5	NW NE SE 28 27N 12W	SE NE SE 14 26N 12W
Brush Cr.	Douglas	4.0	NE NW SE 21 26N 12W	NW NW SE 36 26N 13W
Smith Hollow	Douglas Ozark	4.0	SE NW NE 31 25N 14W	SE NE SE 02 24N 14W
Spring Cr.	Douglas Ozark	12.0	NE SW SW 22 25N 15W	SE SW NW 05 24N 13W
Trib. to Prairie Cr.	Douglas	0.8	NE NW NE 21 26N 16W	NW SE SW 16 26N 16W
Dry Cr. and trib.	Franklin	1.0	NE SW NE 08 41N 01W	SW NW NW 05 41N 01W
Dry Cr.	Franklin	1.5	NE NE NW 05 41N 01W	SE SE SW 30 42N 01W
Trib. to Dry Cr.	Franklin	3.5	SW NW NW 33 42N 01W	SE SE SW 30 42N 01W
Trib. to Boone Cr.	Franklin	2.0	NE NW NW 12 40N 03W	NW NE NW 15 40N 03W
Lollar Br.	Franklin	1.0	SE SW SE 23 41N 02W	NE NE SE 22 41N 02W
Trib. to Bourbeuse R.	Franklin	0.8	SW SW SW 04 42N 01E	NW NE NE 09 42N 01E
Iron Hollow	Franklin	2.0	NE NW NW 25 41N 02W	SE NE NW 31 41N 01W
Trib. to Fiddle Cr.	Franklin	1.0	NE NW NW 25 44N 02E	NW NW SW 23 44N 02E
Winsel Cr.	Franklin	7.0	SW NE SW 08 40N 02W	SW SE SW 18 41N 02W
Pickerel Cr.	Greene	4.0	NE NW SE 28 28N 24W	NW NW NW 11 28N 24W
Pickerel Cr.	Greene	4.0	SW SW SW 02 28N 24W	NW NW NE 22 29N 24W
Trib. to Pickerel Cr.	Greene	2.0	NE SE SE 29 29N 24W	NW NE NW 22 29N 24W
Trib. to Pearson Cr.	Greene	0.5	SE NW NE 34 29N 21W	SE NW NE 35 29N 21W
Asher Cr.	Greene	0.5	SE SE SW 14 30N 23W	NE SW NW 14 30N 23W
Broad Cr.	Greene	2.0	NW NW SW 03 29N 20W	NE NE NW 15 29N 20W
Trib. to L. Sac R.	Greene	0.5	NW NW SW 30 30N 22W	NE NW NE 30 30N 22W
Pond Cr.	Greene	2.0	NW SW NE 35 29N 23W	NE NE NE 04 28N 23W
Pond Cr.	Greene	1.5	SE SW SW 30 29N 23W	NW SW SW 24 29N 24W
Davis Cr.	Greene	0.7	NW SW NE 12 29N 20W	NE NW NE 13 29N 20W
Wilson Cr.	Greene	3.5	NE NW NE 29 29N 22W	SE SW NE 07 28N 22W
Trib. to Wilson Cr.	Greene	3.0	SE SE SE 03 28N 22W	SE NE NE 07 28N 22W
Sugar Cr.	Greene	1.5	NE SW SW 26 31N 24W	SW NW SW 02 30N 24W
Rainer Br.	Greene	2.0	SW 02 29N 23W	NE SE SE 35 30N 23W
Mt. Pleasant Br.	Greene	2.0	NE NE NW 26 30N 23W	SW SE SE 21 30N 23W
S. Dry Sac R.	Greene	6.0	NE NE 03 29N 21W	NE NE NE 03 29N 22W
Sac R.	Greene	5.0	SE SW SE 22 29N 23W	NW SW SW 24 29N 24W
Dry Br.	Greene	5.0	NW NW SE 18 28N 23W	NW SE SW 26 29N 24W

Trib. to Turkey Cr.	Greene Polk	0.2	NW NE NE 15 31N 24W	SW NE SE 10 31N 24W
Trib. to Sac R.	Greene	2.0	SW 02 29N 24W	SW NW SE 09 29N 24W
Shuyler Cr.	Greene	2.5	NW NE NW 27 28N 23W	SW NE SW 26 28N 23W
Shuyler Cr.	Greene	1.0	SE SE SE 19 28N 23W	NW SE NW 28 28N 23W
Trib. to Shuyler Cr.	Greene	1.0	NE NE NE 21 28N 23W	SW SW SE 22 28N 23W
Trib. to Shuyler Cr.	Greene	1.0	NW NW SW 16 28N 23W	NW NE SW 22 28N 23W
Trib. to Shuyler Cr.	Greene	0.5	NE NE NW 22 28N 23W	SE NE SW 22 28N 23W
McElhaney Br.	Greene	2.0	SE SW NW 11 28N 23W	SE NE SE 23 28N 23W
Trib. to Wilson Cr.	Greene	1.0	SE NW SW 12 28N 23W	NW SE NE 13 28N 23W
Trib. to Wilson Cr.	Greene	1.0	SE SW SW 30 28N 22W	SE SW SW 25 28N 23W
Trib. to Hunt Br.	Greene	0.5	NW NW NW 23 28N 21W	SW SE NE 22 28N 21W
Trib. to Hunt Br.	Greene	0.5	NW SW SE 13 28N 21W	NW SE NW 24 28N 21W
Trib. to Hunt Br.	Greene	0.5	NW SW SE 24 28N 21W	NW NW SW 24 28N 21W
Trib. to Hunt Br.	Greene	1.5	SW NE NW 30 28N 20W	SW SW NW 25 28N 21W
Trib. to Hunt Br.	Greene	1.5	SE NW SE 30 28N 20W	NW SE SW 25 28N 21W
Unnamed perched stream	Greene	0.5	NW NW NE 19 28N 20W	NE NW SE 18 28N 20W
Parched Corn Hollow	Greene	3.0	NE SE SW 27 28N 20W	NW NW SW 08 27N 20W
Pearson Cr.	Greene	1.0	SE NW SW 23 29N 21W	SE SE NW 26 29N 21W
Trib. to Pearson Cr.	Greene	1.0	NW SE NW 24 29N 21W	NE NE NW 26 29N 21W
Trib. to Pearson Cr.	Greene	0.5	NW SE NE 23 29N 21W	SE SE NW 23 29N 21W
Trib. to Pearson Cr.	Greene	1.0	SE NW NW 04 29N 20W	NE SE SW 05 29N 20W
Trib. to Pearson Cr.	Greene	0.2	NE NW NE 05 29N 20W	SW SE NW 05 29N 20W
Trib. to Pearson Cr.	Greene	0.2	NE NE SW 05 29N 20W	SE SW SW 05 29N 20W
Trib. to Pearson Cr.	Greene	0.5	NW NW NW 05 29N 20W	NE NW SW 05 29N 20W
Trib. to Pearson Cr.	Greene	1.0	NE SE NE 07 29N 20W	SW SW NW 09 29N 20W
Trib. to Pearson Cr.	Greene	0.5	NW SE SE 08 29N 20W	SE SE NW 08 29N 20W
Trib. to Pearson Cr.	Greene	0.5	SE SE SW 08 29N 20W	NW SW NW 08 29N 20W
Trib. to Pearson Cr.	Greene	1.5	SW NW SE 01 29N 21W	SW SW NE 07 29N 20W
Trib. to Pearson Cr.	Greene	0.5	NE SE NE 12 29N 21W	SE SW SE 12 29N 21W
Trib. to Pearson Cr.	Greene	1.0	NW NW NW 12 29N 21W	NW NW NE 13 29N 21W
Trib. to Pearson Cr.	Greene	2.5	NW SE SE 02 29N 21W	SE SE SW 14 29N 21W
Trib. to Pearson Cr.	Greene	0.5	SE NW SE 10 29N 21W	NE NE NE 15 29N 21W
Trib. to Pearson Cr.	Greene	0.5	SE NE NW 15 29N 21W	NW NW NW 14 29N 21W
Trib. to Pearson Cr.	Greene	1.0	NW NE SW 15 29N 21W	NE NE NE 22 29N 21W
Trib. to Pearson Cr.	Greene	1.0	NE SW SW 15 29N 21W	NW SW NW 23 29N 21W
Turner Cr.	Greene	4.0	SE NE NE 14 28N 20W	NE SE NW 33 29N 20W
Trib. to Turner Cr.	Greene	1.0	SW SW NE 04 28N 20W	SW SE NW 33 29N 20W
Trib. to Turner Cr.	Greene	1.0	NE NW NW 07 28N 20W	NW SW NW 01 28N 21W
Big Hollow	Greene	0.5	SW NE NW 12 28N 21W	SW NW SW 12 28N 21W
Trib. to James R.	Greene	5.0	SW SE SW 10 28N 20W	SW NE SW 11 28N 21W
Trib. to James R.	Greene	0.5	NE NE SW 15 28N 20W	NW NE NE 16 28N 20W
Trib. to James R.	Greene	1.0	NE SW NE 19 29N 20W	NW SE SW 20 29N 20W
Trib. to James R.	Greene	2.0	NE SW NW 04 28N 20W	SE NE SE 31 29N 20W
Trib. to James R.	Greene	1.0	NE NE NW 08 28N 20W	NW SE SE 31 29N 20W
Trib. to James R.	Greene	1.0	SW NE SE 20 28N 20W	NE NE SW 17 28N 20W
Trib. to James R.	Greene	0.7	NE SW NE 21 28N 22W	SE NE NW 27 28N 22W
Trib. to James R.	Greene	1.0	NW NE SW 20 28N 22W	NE SE SE 29 28N 22W
Trib. to James R.	Greene	1.0	NE NW NW 13 28N 21W	SW NW SW 11 28N 21W
Trib. to James R.	Greene	0.5	NW NE NE 17 28N 20W	NW NE SW 16 28N 20W
Trib. to James R.	Greene	0.5	SE SW SE 09 28N 21W	NE NE SE 16 28N 21W
Trib. to James R.	Greene	0.5	NW SW NW 10 28N 21W	NW SW SE 10 28N 21W
Trib. to James R.	Greene	1.0	NW NW SW 03 28N 21W S	E SW NE 10 28N 21W
Trib. to James R.	Greene	0.5	SW SW SE 03 28N 21W	SE SW NE 10 28N 21W
Trib. to James R.	Greene	1.5	SW NE NW 03 28N 21W	NE NE NE 10 28N 21W
Trib. to James R.	Greene	1.5	SE SW SW 28 29N 21W	SE NE NW 09 28N 21W
Trib. to James R.	Greene	0.5	NW SE NE 04 28N 21W	NW NE SW 04 28N 21W
Trib. to James R.	Greene	0.5	NE NW NE 05 28N 21W	NE SW NW 04 28N 21W
Trib. to James R.	Greene	1.5	SW SE SW 16 28N 22W	NW NE SW 28 28N 22W
Trib. to James R.	Greene	1.5	SE NW SE 17 28N 22W	NW SW SW 21 28N 22W
Trib. to James R.	Greene	0.5	NE SW SW 20 28N 22W	SE NE NW 29 28N 22W
Trib. to James R.	Greene	0.5	SE SE NW 29 28N 22W	NE NE SE 29 28N 22W
Trib. to James R.	Greene	0.5	NW NE SW 29 28N 22W	NE NE SE 29 28N 22W

Trib. to James R.	Greene	0.2	NW SE SW 24 28N 22W	SW NE NW 25 28N 22W
Trib. to Jones Br.	Greene	0.5	NW NW NW 27 29N 21W	SW NW NE 27 29N 21W
Trib. to Jones Br.	Greene	0.5	SW NE SW 22 29N 21W	SW SW NE 27 29N 21W
Ward Br.	Greene	2.0	SE NW NW 08 28N 21W	NW SW SW 13 28N 22W
Ward Br.	Greene	2.0	SW NE SW 23 28N 22W	SE NW NW 27 28N 22W
Trib. to Ward Br.	Greene	0.5	SE NW NE 12 28N 22W	NW SE SE 12 28N 22W
Trib. to Ward Br.	Greene	1.5	NW NE NW 12 28N 22W	NW SW SW 13 28N 22W
Trib. to Ward Br.	Greene	1.5	NE NE NW 16 28N 22W	NE SE SW 22 28N 22W
Workman Br.	Greene	0.5	SW NE SW 11 28N 22W	SW SW NW 14 28N 22W
Trib. to Workman Br.	Greene	1.0	NW NE SE 10 28N 22W	NE NE SE 15 28N 22W
South Cr.	Greene	2.5	NW SE 31 29N 21W	NE NE NE 03 28N 22W
Jordan Cr.	Greene	2.0	NW SE NW 17 29N 21W	NW NE NW 24 29N 22W
Trib. to Jordan Cr.	Greene	2.0	NW SW SE 08 29N 21W	NW NE NW 24 29N 22W
Fassnight Cr.	Greene	2.0	NW SE 30 29N 21W	NE SE NE 26 29N 22W
Wilson Cr.	Greene	2.5	NE SE SW 09 29N 22W	NW SE SE 20 29N 22W
Wilson Cr.	Greene	1.0	SW SE NE 07 28N 22W	SE NE NW 18 28N 22W
Trib. to Wilson Cr.	Greene	1.5	SW NE SW 15 29N 22W	SE NW SW 21 29N 22W
Trib. to Wilson Cr.	Greene	1.5	SW NW SE 18 29N 22W	NW NE NE 20 29N 22W
Trib. to Wilson Cr.	Greene	1.0	SE NW NW 17 29N 22W	NE NE NW 20 29N 22W
Trib. to Wilson Cr.	Greene	1.5	NE NW NE 19 29N 22W	NE NW NW 20 29N 22W
Trib. to Wilson Cr.	Greene	0.5	NW NW SW 20 29N 22W	NE NE NW 29 29N 22W
Trib. to Wilson Cr.	Greene	0.5	SW SW NE 30 29N 22W	NW SW SW 29 29N 22W
Trib. to Wilson Cr.	Greene	1.0	SW SW SW 28 29N 22W	SW NW SW 29 29N 22W
Trib. to Wilson Cr.	Greene	0.5	NE SW NE 32 29N 22W	NE NE SE 31 29N 22W
Trib. to Wilson Cr.	Greene	0.5	SE NW NW 10 28N 22W	SE SW SW 03 28N 22W
Trib. to Wilson Cr.	Greene	0.5	SW SE NE 17 28N 22W	NW NW NE 17 28N 22W
Trib. to Wilson Cr.	Greene	2.0	SW SW SE 09 28N 22W	NE NW SE 07 28N 22W
Trib. to Wilson Cr.	Greene	1.0	NW SW SE 17 28N 22W	NE NW NE 18 28N 22W
Trib. to Wilson Cr.	Greene	1.0	SE NE NE 01 28N 23W	SW NW SE 06 28N 22W
Trib. to Wilson Cr.	Greene	1.0	NE NW SE 36 29N 23W	SE SW SE 31 29N 22W
Trib. to Wilson Cr.	Greene	1.5	NE SW SE 13 29N 23W	NW NW NW 30 29N 22W
Trib. to Wilson Cr.	Greene	0.3	SW NE SW 19 29N 22W	NE NW NW 30 29N 22W
Trib. to Wilson Cr.	Greene	1.9	NE NE NE 20 29N 22W	SW SW SW 21 29N 22W
Mooney Hollow	Greene Christian	3.5	SW SW NE 26 28N 20W	SE NW NW 04 27N 20W
Drainage to sinkhole	Greene	1.0	NW NE NE 27 28N 20W	NW SW NW 27 28N 20W
Drainage to sinkhole	Greene	2.0	SW NW SE 23 28N 20W	SE NW SW 22 28N 20W
Sawyer Cr.	Greene	1.0	SE SE SE 01 28N 20W	NE SW SE 36 29N 20W
Trib. to Broad Cr.	Greene	1.0	SW 02 29N 20W	SW NW SE 10 29N 20W
Trib. to Broad Cr.	Greene	0.5	NW SW NW 11 29N 20W	SW NW SE 10 29N 20W
Trib. to Broad Cr.	Greene	0.5	NE NE NE 09 29N 20W	SW SW NW 10 29N 20W
Davis Cr.	Greene	0.5	NE 02 29N 20W	SE 02 29N 20W
Hunt Br. and Farmer Br.	Greene	5.0	NE NE SE 23 28N 21W	SW SE 30 28N 21W
Trib. to Farmer Br.	Greene	1.0	NW NW SE 26 28N 21W	NW SW SE 27 28N 21W
Spring Cr. and trib.	Greene	2.0	NW SW NE 17 30N 20W	SW NW SE 05 30N 20W
Trib. to Little Cr.	Howell	2.0	NW NE 04 25N 08W	SW NE NE 10 25N 08W
Horton Hollow	Howell	2.0	NW SW NE 05 25N 10W	SW NE SW 18 25N 10W
Moss Hollow	Howell	4.0	NE SE NW 34 26N 10W	SW SE SE 18 25N 10W
Lee Hollow	Howell	6.0	SW SE NW 35 27N 07W	NW SW NW 34 26N 07W
Kenaga Hollow	Howell	8.0	NE SE NW 28 27N 07W	SE NW NE 33 26N 07W
Middle Fk.	Howell Oregon	10.0	NW NW SW 35 25N 07W	NW NW NE 05 24N 05W
Jam Up Cr.	Howell Shannon	5.0	SW NE SE 22 27N 07W	NW SE SE 04 27N 06W
Crooked Br.	Howell Ozark	5.0	NW SW SE 21 24N 10W	SE NW SE 22 24N 11W
Spring Cr.	Howell Ozark	10.5	NW NW NW 06 23N 09W	SW SW SW 15 23N 11W
Tabor Cr.	Howell	5.0	NW SE SW 19 24N 09W	SE SW SW 34 24N 10W
Tabor Cr.	Howell Douglas	10.0	SE NE NW 34 25N 09W	SE NE SW 35 25N 11W
Trib. to Tabor Cr.	Howell	2.0	NW SE NE 35 25N 10W	NE NW SW 11 24N 10W
Davis Cr.	Howell	2.0	NE NE SW 19 23N 09W	NE NW SW 14 23N 10W
Kenyon	Hollow Howell	2.5	SW SE NW 02 25N 10W	NE NE NE 21 25N 10W
Elk Cr.	Howell Oregon	4.0	SW SE SE 24 24N 07W	SE NE NW 08 23N 06W
Big Greasy Cr.	Howell	3.0	SW NE SW 28 24N 07W	NW NW NW 02 23N 07W
Spring Cr.	Howell	5.0	NW 23 24N 09W	NW NW NW 06 23N 09W
Trib. to Spring Cr.	Howell	4.0	SW SE NW 02 23N 09W	SW NW SW 32 24N 09W

Mustion Cr.	Howell	3.5	NE NE SE 32 24N 08W	SW NW SE 36 24N 08W
Mustion Cr.	Howell	2.0	NW NE SE 36 24N 09W	NW SE NE 32 24N 08W
Chapin Br.	Howell	3.0	SW NW NW 14 23N 08W	NE NW SE 06 23N 07W
L. Greasy Cr.	Howell	5.0	SE NE 13 24N 08W	NW SW SE 05 23N 07W
Bay Cr.	Howell	2.5	NE SW NE 32 22N 09W	SE SW NW 10 21N 09W
Myatt Cr.	Howell	13.0	SW SE NW 14 23N 08W	SE SE NW 33 22N 07W
Bennetts R.	Howell	6.0	NE SW 01 22N 10W	NE NW NE 02 21N 10W
Ray Br.	Howell	2.5	NE SW SW 32 22N 09W	SE SW NE 02 21N 10W
N. Fk. Dry Cr.	Howell	3.5	NE NE NE 30 26N 09W	NW NW NW 18 25N 09W
Dry Cr.	Howell	6.0	NW NE SE 20 26N 09W	NW NW NW 18 25N 09W
Lost Camp Cr.	Howell	12.0	SW SW SE 08 26N 09W	SE NW SE 24 26N 08W
Trib. to Lost Camp Cr.	Howell	6.0	NW NE NW 28 26N 09W	NE NW SE 20 26N 08W
Eleven Point R.	Howell Oregon	32.0	NW SE SW 29 27N 09W	SW SE SE 31 25N 05W
Trib. to Eleven Point R.	Howell	2.5	SE SW SW 36 27N 08W	SE NW NW 13 26N 08W
Gunters Valley	Howell	8.0	SW SW NW 03 24N 08W	NE NE SE 34 25N 07W
Little Cr.	Howell	9.0	NW SW SW 16 25N 08W	SE NW SW 02 25N 07W
Dry Cr.	Howell Douglas	8.0	NW NW NW 18 25N 09W	SW SE SW 23 25N 11W
Trib. to Dry Cr.	Howell	7.0	NW NE SW 14 25N 09W	SW NE NW 23 25N 10W
Howell Cr.	Howell	16.0	NE SW NW 35 25N 09W	NE NE NE 12 23N 07W
Spradlin Cr.	Howell	3.0	NE NW NW 10 24N 08W	SE NE SW 26 24N 08W
Galloway Cr. and trib.	Howell	0.5	SW SW 04 24N 08W	SW NE 08 24N 08W
Trib. to Lost Camp Cr.	Howell	12.8	SW SW SE 27 26N 09W	SE SW SW 19 26N 07W
Trib. to Blue Br.	Jackson	0.2	SE SE SW 28 49N 30W	SE SE SW 28 49N 30W
Short Cr.	Jasper	1.5	NE NW NE 12 27N 34W	NE NE SW 02 27N 34W
Spring Br.	Jasper	3.0	NE NE SW 18 27N 33W	SE SE SW 02 27N 34W
Fidelity Br.	Jasper	1.5	NW SE SW 15 27N 31W	NE NW NE 03 27N 31W
Fidelity Br.	Jasper	2.5	NW SE NW 22 27N 31W	SE NE NE 09 27N 31W
Grove Cr.	Jasper	1.0	SW SW NE 11 27N 32W	NW SE NW 01 27N 32W
Trib. to Jenkins Cr.	Jasper	1.0	SW SW SW 05 27N 30W	NW SE SE 07 27N 30W
Trib. to Center Cr.	Jasper	2.0	SE NW SW 09 27N 31W	NE NW SW 33 28N 31W
Trib. to Center Cr.	Jasper	2.5	SE SW NW 23 28N 33W	SW SW NE 09 28N 33W
Buck Cr.	Jefferson	1.5	SE NE SE 27 40N 05E	NE NE NW 23 40N 05E
Williams Cr.	Jefferson St. Louis	3.0	NW NE 14 43N 04E	NE NE NE 36 44N 04E
L. Antire Cr.	Jefferson	1.0	NW NE NW 14 43N 04E	SE SW NW 11 43N 04E
Glaize Cr.	Jefferson	5.0	NE NW SW 32 42N 05E	NW SW NW 23 42N 05E
Bear Cr.	Jefferson	2.0	SE SE SW 25 43N 04E	NW SE SW 34 43N 04E
Rock Cr.	Jefferson	1.2	NE NW NW 32 43N 05E	NW NW NE 33 43N 05E
Romaine Cr.	Jefferson	2.0	SE NW NE 29 43N 05E	SE NE SE 16 43N 05E
Heads Cr.	Jefferson	5.0	SW SW NE 36 42N 04E	NW NW SW 03 42N 04E
Trib. to Heads Cr.	Jefferson	1.0	NE NW SW 02 42N 04E	NE SE SW 03 42N 04E
Trib. to Heads Cr.	Jefferson	0.5	SE SE SW 18 42N 05E	NE NW SW 18 42N 05E
Trib. to Heads Cr.	Jefferson	1.5	SW SW 35 43N 04E	NE NE NE 04 42N 04E
McMullen Br.	Jefferson	1.5	SE 28 39N 05E	NW NW SE 21 39N 05E
Murril Br.	Jefferson	0.5	NE NE SW 15 40N 04E	SW SW SE 15 40N 04E
Moss Hollow	Jefferson	2.0	SW NW NE 05 41N 05E	SE 34 42N 05E
Trib. to Moss Hollow	Jefferson	0.5	NE SE NW 33 42N 05E	SE NW SE 33 42N 05E
Trib. to Moss Hollow	Jefferson	1.0	SE NE NE 04 41N 05E	SE 34 42N 05E
Trib. to Moss Hollow	Jefferson	0.5	SW NE NE 03 41N 05E	SE 34 42N 05E
Trib. to Sandy Cr.	Jefferson	1.0	NE 08 41N 05E	NE 09 41N 05E
Trib. to Sandy Cr.	Jefferson	1.0	NE SE SW 05 41N 05E	NW SE SW 04 41N 05E
Trib. to Sandy Cr.	Jefferson	0.5	NW NW SE 05 41N 05E	SE NE SE 05 41N 05E
Trib. to Sandy Cr.	Jefferson	1.0	NW 09 41N 05E	NW 10 41N 05E
Trib. to Mississippi R.	Jefferson	1.5	SW NE NE 11 41N 05E	NE NW NW 07 41N 06E
Trib. to Mississippi R.	Jefferson	0.5	NE 12 41N 05E	SE NE SW 07 41N 06E
Williams Cr	Jefferson St. Louis	3.5	SE NE NE 11 43N 04E	SW SE SE 24 44N 04E
Prairie Hollow	Jefferson	2.5	SE SE SE 34 43N 05E	NW NE NE 13 42N 05E
Dulin Cr.	Jefferson	1.0	NE NW SW 09 42N 04E	SW NW SW 04 42N 04E
Bourne Cr.	Jefferson	2.0	NE NW SW 15 42N 04E	NE SE NE 04 42N 04E
Trib. to Meramec R.	Jefferson	1.0	NE NW NW 27 43N 05E	SE SE NE 22 43N 05E
Trib. to Hocum Hollow	Jefferson	1.5	SW NW NW 33 40N 06E	NE 31 40N 06E
Isum Cr.	Jefferson	1.0	SW NE 29 42N 04E	SE SW NE 30 42N 04E
Scullbones Cr.	Jefferson	1.0	NE NE SW 35 42N 03E	SE SW SE 26 42N 03E

Glaize Cr.	Jefferson	2.5	SW NW NW 28 42N 05E	NW SW NW 23 42N 05E
Trib. to Glaize Cr.	Jefferson	1.5	NW SE NW 29 42N 05E	NE NW NE 20 42N 05E
Trib. to Glaize Cr.	Jefferson	1.5	SE NE SE 18 42N 05E	NW 21 42N 05E
Trib. to Glaize Cr.	Jefferson	0.2	SE SW SW 17 42N 05E	SE SE SW 17 42N 05E
Trib. to Glaize Cr.	Jefferson	0.5	NE NW NW 20 42N 05E	NW NW NE 20 42N 05E
Trib. to Glaize Cr.	Jefferson	0.5	NE NE NE 30 42N 05E	SW NE SW 20 42N 05E
Trib. to Glaize Cr.	Jefferson	1.5	SW NE NE 16 42N 05E	NW SE NW 23 42N 05E
Trib. to Black Cr.	Jefferson	0.5	NE SW 07 42N 06E	NE SE 07 42N 06E
Hocum Hollow	Jefferson	1.0	SE SE SE 04 39N 06E	NW SE NW 04 39N 06E
L. Antire Cr.	Jefferson	3.0	NW NE NW 14 43N 04E	NW SW SE 34 44N 04E
Trib. to Meramec R.	Jefferson	0.5	SE NE SW 22 43N 05E	SE SE NE 22 43N 05E
Haverstick Cr.	Jefferson	1.0	NW SE 05 39N 05E	NW NE NE 05 39N 05E
Antire Cr.	Jefferson	2.0	NW NW NW 23 43N 04E	NE NW SW 10 43N 04E
N. Cobb Cr.	Laclede	6.0	SE 18 34N 15W	SE SW NE 02 33N 15W
Bennett Spring Cr.	Laclede Dallas	10.8	NE NE NE 34 34N 17W	SE NE NE 01 34N 18W
Woodward Hollow	Laclede	6.8	SW SE NW 11 34N 17W	NW SW NW 06 34N 17W
Dousinbury Cr.	Laclede Dallas	3.1	SE SW SE 08 33N 17W	SW NW SE 12 33N 18W
Trib. to Dousinbury Cr.	Laclede Dallas	2.0	NE SE NE 18 33N 17W	SW NW SE 12 33N 18W
Pig Pen Hollow	Laclede	1.0	NE SW SE 04 34N 15W	SW SW SW 03 34N 15W
Trib. to N. Cobb Cr.	Laclede	2.5	NW NW NE 26 34N 16W	NE SW SW 20 34N 15W
Mountain Cr.	Laclede	7.6	NE NE NW 31 35N 16W	SW SE SW 04 35N 17W
Mill Cr.	Laclede	3.0	SW SW SW 09 34N 15W	SW NW SE 02 34N 15W
Dog Wood Cr. and trib.	Laclede	2.5	NW NW SE 33 34N 17W	NE NW NW 21 34N 17W
Bear Cr.	Laclede	1.5	NE SW NW 08 35N 14W	NE NW NW 04 35N 14W
Gasconade R.	Laclede Pulaski	26.0	NW NW NE 11 35N 14W	SE SE NE 15 36N 12W
Steins Cr.	Laclede	2.0	SW NW NW 02 32N 15W	SE NE SW 25 33N 15W
Osage Fork	Laclede	6.0	NE NW SW 07 32N 15W	NE NW NW 33 33N 15W
Woolsey Cr.	Laclede Camden	10.0	SW SE SE 24 36N 17W	SW NE NE 36 37N 18W
Goodwin Hollow	Laclede	20.0	SW SW SW 16 34N 16W	NE NE SW 14 36N 16W
Dry Auglaize Cr.	Laclede Camden	25.0	SE SE SE 02 34N 16W	NE NE NE 13 38N 16W
Trib. to Woodward Hollow	Laclede	3.8	SE SE 01 34N 17W	SE NW SE 04 34N 17W
Mill Cr.	Laclede	2.5	NW NW NW 10 34N 15W	01 34N 15W
Trib. to Spring R.	Lawrence	0.5	SE SE SE 05 26N 26W	NE SE SW 05 26N 26W
Trib. to Clear Cr.	Lawrence Barry	3.0	SE NW SE 20 26N 27W	NW SE NE 35 26N 28W
Pruitt Br.	Lawrence	2.5	NW NW SW 11 26N 28W	SW NE SW 26 27N 28W
Hewlett Br.	Lawrence	4.0	SW NW SE 18 26N 27W	SW SW SW 25 27N 28W
Browning Hollow	Lawrence	4.0	SE SW SE 34 27N 26W	SW SW NW 30 27N 26W
Honey Cr.	Lawrence	9.0	NE NE SE 13 27N 26W	SW NE SW 02 27N 27W
Trib. to Honey Cr.	Lawrence	2.0	NW NE SW 03 27N 26W	SW SE SW 16 27N 26W
Trib. to Honey Cr.	Lawrence	1.0	NW NW NE 33 27N 25W	SE NW NE 27 27N 25W
Trib. to Honey Cr.	Lawrence	1.5	NW NE NE 12 27N 26W	NE NW SE 13 27N 26W
Trib. to Honey Cr.	Lawrence	2.0	NW NE SW 05 27N 25W	NE NE SE 13 27N 26W
Trib. to Honey Cr.	Lawrence	1.0	NW SW NW 09 27N 25W	SE SW NE 17 27N 25W
Trib. to Honey Cr.	Lawrence	1.5	SW NE SW 09 27N 25W	NE NW SE 17 27N 25W
Dry Hollow	Lawrence	8.0	SW SE NW 24 27N 28W	NE SE SW 15 28N 28W
Trib. to Spring R.	Lawrence	6.0	NE SE SE 29 27N 27W	NW SE SE 29 28N 27W
Trib. to Spring R.	Lawrence	2.0	SW SW SW 18 26N 26W	NE NE NW 08 26N 26W
Hillhouse Br.	Lawrence	3.0	NE NE NE 15 26N 27W	NW NE NE 01 26N 27W
Douger Br.	Lawrence	2.0	NW NE SW 11 26N 26W	SW NW SW 09 26N 26W
Goose Cr.	Lawrence	3.0	NW NE NW 11 27N 25W	NE SW NW 26 28N 25W
Trib. to Goose Cr.	Lawrence	2.0	SW NW SE 02 27N 25W	NE SW NW 26 28N 25W
Trib. to Stahl Cr.	Lawrence	0.8	SE SW SW 24 29N 27W	SE SW NW 25 29N 27W
Hickory Hollow	Lawrence	2.0	SW SE SW 29 26N 25W	NE SW NW 22 26N 25W
Hemphill Br.	Lawrence	2.0	NW SE NW 09 26N 25W	SW NW NW 22 26N 25W
Hemphill Br.	Lawrence	2.0	NE SE SW 22 26N 25W	SW SW NE 24 26N 25W
Hemphill Br.	Lawrence	0.5	NE SW SE 09 26N 25W	NE NE NW 16 26N 25W
Trib. to Hemphill Br.	Lawrence	2.0	NW NW SE 11 26N 25W	NE SW NE 23 26N 25W
Trib. to Hemphill Br.	Lawrence	1.0	SE NE NW 17 26N 25W	NW SW SE 16 26N 25W
Trib. to Hemphill Br.	Lawrence	1.5	NW SW SE 10 26N 25W	NW NE SE 16 26N 25W
Hickory Hollow	Lawrence	1.0	SE SE SE 30 26N 25W	SE NE NW 29 26N 25W
Trib. to Hickory Hollow	Lawrence	0.5	SE SW SE 29 26N 25W	SE SW NE 29 26N 25W
Trib. to Crane Cr.	Lawrence Stone	0.5	NE NE SE 12 26N 25W	NW NW NW 18 26N 24W

Trib. to Crane Cr.	Lawrence	0.5	SE SE SE 11 26N 25W	SE NW SW 13 26N 25W
Trib. to Crane Cr.	Lawrence	0.3	NE NW NE 14 26N 25W	NW SE NE 14 26N 25W
Trib. to L. Crane Cr.	Lawrence Barry	0.2	NW SE SE 27 26N 25W	SE NE NE 34 26N 25W
Dry Hollow	Lawrence	2.0	SE SE SE 35 28N 28W	SE SE 22 28N 28W
Bear Cr.	Mc Donald	3.0	SE SE SE 28 21N 30W	SW NW NE 35 21N 31W
Big Sugar Cr.	Mc Donald	1.0	NE SE SW 01 21N 30W	SE NE NW 35 22N 30W
Missouri Cr.	Mc Donald	4.0	NW 16 21N 30W	SE NW NW 22 21N 31W
Yarnell Br.	Mc Donald	2.0	SE SE SW 28 21N 33W	NE NE SE 16 21N 33W
Trib. to Elk R.	Mc Donald	1.0	NE SW 17 21N 33W	NE NE NW 16 21N 33W
Cave Spring Br.	Mc Donald	1.0	SW 15 21N 34W	NW NE NW 21 21N 34W
Sugar Fk.	Mc Donald	1.5	NE SE SW 05 23N 32W	SE NE NE 01 23N 33W
Beaver Br.	Mc Donald	1.0	SW SW SE 08 23N 32W	SW SW SW 17 23N 32W
Beaver Br.	Mc Donald	2.5	NE SW SW 30 23N 32W	SE NW NE 12 22N 33W
Trib. to Indian Cr.	Mc Donald	1.5	NW 09 23N 32W	SW NE SE 03 23N 32W
Dry Fk.	Maries Gasconade	7.7	NE NW NW 05 40N 07W	SE SW NW 29 41N 06W
Dry Fk.	Maries	5.6	SE SE SE 25 40N 08W	SE SE NE 07 40N 07W
Klein Br.	Maries	0.8	SE SE SE 29 41N 07W	NE NW SW 33 41N 07W
Middle Indian Cr.	Newton	2.0	NW NW SW 08 24N 29W	NE NW SW 12 24N 30W
Spring Cr.	Newton	1.5	SE NE SW 04 26N 33W	NE SW SE 34 27N 33W
Buffalo Cr.	Newton	4.0	SW SE NE 16 24N 32W	NW NW NE 14 24N 33W
L. Lost Cr.	Newton	4.0	NE NW SW 31 25N 32W	SW NE NE 32 25N 33W
Fivemile Cr.	Newton	1.0	NW NE NW 34 26N 33W	NE NE NW 28 26N 33W
Unnamed trib.	Newton	3.0	NW SE SW 35 25N 33W	SE SE NE 32 25N 33W
Jones Cr.	Newton Jasper	2.5	NE SW NE 24 27N 31W	SW NE SE 02 27N 31W
Unnamed trib.	Newton	3.0	NE SE NW 27 27N 32W	NW NW NE 31 27N 32W
Thurman Cr.	Newton	3.0	NW SE 21 27N 32W	SE SE NW 31 27N 32W
Trib. to Hickory Cr.	Newton	2.0	03 24N 32W	SW NW NE 30 25N 31W
Lost Cr.	Newton	2.0	SE NE NW 27 25N 32W	SE NE SW 20 25N 32W
Rock Br.	Newton	2.0	SW SE NE 05 26N 33W	SE SE NE 12 26N 34W
Bullskin Cr.	Newton	2.0	NE NE NW 23 24N 32W	SW SW SW 35 24N 32W
Elm Spring Br.	Newton	4.0	SE SE NW 19 24N 31W	NE NE NE 33 25N 31W
Frederick Cr.	Oregon	6.5	NE SW SW 02 22N 03W	SW NW NW 15 22N 02W
Frederick Cr.	Oregon	20.0	SE NE SW 26 24N 05W	NE SW SW 02 22N 03W
Dry Cr.	Oregon	9.0	SW SW NW 28 24N 03W	SE SW SE 01 22N 03W
School House Hollow	Oregon	3.0	SW SE SE 36 24N 02W	SW SW SW 10 23N 02W
Greenbriar Hollow	Oregon	4.0	SE NW NE 36 24N 02W	NE SE SE 32 24N 02W
Freeman Hollow	Oregon	3.0	SW NW NE 14 24N 02W	NE NW NE 32 24N 02W
Unnamed trib.	Oregon	1.5	SE NW SE 14 24N 02W	NW SW SW 22 24N 02W
Spring R.	Oregon	2.0	SW SE SE 20 22N 05W	SE SE SW 29 22N 05W
Sitton Valley	Oregon Carter	4.0	NE SW NE 17 25N 02W	SW NE SE 04 24N 02W
Dry Prong	Oregon	2.0	SE NE NW 02 24N 02W	SW NE SE 09 24N 02W
Whites Cr.	Oregon	7.0	NE SE NE 21 25N 02W	NE SW NW 20 24N 02W
Warm Fork	Oregon	6.0	NW NW NW 07 23N 06W	NW NE SW 23 23N 06W
Watered Fork	Oregon	4.0	SE SE NW 16 24N 06W	SW SE SW 35 25N 06W
Water Br.	Oregon	2.0	NW NE SE 19 24N 06W	SW SW NE 31 24N 06W
L. Hurricane Cr.	Oregon	4.5	SW SW NE 22 24N 04W	SE SE NW 07 24N 03W
Piney Cr.	Oregon	15.0	NW SW SW 20 24N 04W	SE SW NW 03 22N 03W
English Cr.	Oregon	2.5	SW SW SW 16 22N 06W	SE SE NE 33 22N 06W
Rover Br.	Oregon	4.0	NE 27 24N 06W	SE SE SE 31 24N 06W
Bussell Br.	Oregon Howell	5.0	NW SE 01 22N 07W	SW SW SE 20 22N 06W
Trib. to Bussell Cr.	Oregon	1.5	NW SW 05 22N 06W	NW SE SW 07 22N 06W
Unnamed trib.	Osage	3.0	SW NE SW 01 41N 11W	NE NW NW 26 42N 11W
Unnamed trib.	Osage	3.0	NW SE NE 05 41N 10W	NW NW NW 30 42N 10W
Pointers Cr.	Osage	3.0	NW SE SW 22 43N 08W	SW SW SW 31 43N 07W
Owens Cr.	Osage	2.0	NW SE SW 28 43N 08W	NW SW SE 03 42N 08W
Owens Cr.	Osage	5.0	SW NW SE 21 43N 08W	NW SW SE 03 42N 08W
Elk Cr.	Osage	4.0	NW SW SE 17 41N 07W	NW NW SE 10 41N 08W
Unnamed trib.	Ozark	3.0	SW SE SW 01 24N 15W	NE SE SW 15 24N 15W
Turkey Cr.	Ozark	11.0	SE NW SE 02 24N 15W	SW NE NE 17 23N 15W
Unnamed trib.	Ozark	3.5	SE SE NW 13 24N 15W	NW NE NE 34 24N 15W
Unnamed trib.	Ozark	2.5	SE NW SE 32 24N 14W	NW NW NE 35 24N 15W
South Fk.	Ozark	5.5	NE SW NW 28 24N 14W	SW NW SE 33 24N 15W

Thompson Hollow	Ozark	3.0	SE NE SW 01 23N 15W	SW NE NE 17 23N 15W
Smith Hollow	Ozark	2.0	NE NW SW 18 24N 14W	NE NE NE 17 24N 14W
Gardner Hollow	Ozark	4.0	NW SW SW 24 24N 14W	NE NE SE 01 24N 14W
Unnamed trib.	Perry	3.0	SW NW NW 27 34N 13E	SE SW NW 03 33N 13E
Trib. to Blue Spring Br.	Perry	1.0	S NE NE 33 36N 10E	NW SW SE 26 36N 10E
Bradford Br.	Phelps	2.0	SE SE SE 05 34N 09W	SE NW NE 06 34N 09W
Corn Cr.	Phelps	8.0	NE SE 02 34N 09W	NE NE SE 35 36N 09W
Mill Cr.	Phelps	1.5	NW NW NW 04 35N 09W	SE NW SE 29 36N 09W
Deep Hollow	Phelps	3.0	SW NW SE 18 35N 09W	NE SE NW 32 36N 09W
Unnamed trib.	Phelps	2.0	NW NE NW 27 37N 06W	NW NW SW 15 37N 06W
L. Piney Cr.	Phelps Dent	10.0	SE SW SE 06 34N 08W	SW NW SE 04 35N 08W
Hardester Hollow	Phelps	2.0	SW NW SE 23 36N 10W	NE NW NE 18 36N 09W
Peno Cr.	Pike	1.0	SW NW NE 20 53N 03W	NE NW SW 17 53N 03W
Burchard Hollow	Pulaski	1.5	NW NE NE 32 36N 11W	SW NE NW 31 36N 11W
York Hollow	Pulaski	2.5	SW NW SE 08 35N 12W	SW SW SE 15 35N 12W
Weeks Hollow	Pulaski	3.0	SW NW SW 23 36N 11W	SW SW SW 02 36N 11W
Unnamed trib.	Pulaski	1.0	SW NE SW 18 36N 11W	NE NW SW 07 36N 11W
Collie Hollow	Pulaski	7.0	SE NW NE 24 35N 13W	SE NW SE 17 36N 12W
Sawmill Hollow	Pulaski	3.0	SE NE NE 29 36N 11W	SE NE SE 07 36N 11W
Smith Br.	Pulaski	9.0	SW SE NE 08 34N 11W	SE NW SW 07 35N 11W
Roubidoux Cr.	Pulaski	17.0	SE NE SW 03 34N 12W	SE NE SE 25 36N 12W
Unnamed trib.	Pulaski	1.0	NE NE NW 13 36N 12W	NE NE NE 12 36N 12W
Unnamed trib.	Pulaski	2.0	SE SW SW 23 35N 11W	NE SE NE 25 35N 11W
Dry Br.	Pulaski	4.0	SE 11 35N 11W	C 25 36N 11W
Weeks Hollow	Pulaski	2.0	NE SW SE 14 36N 11W	SW SW SW 02 36N 11W
Trib. to Big Piney R.	Pulaski	2.0	NW NE NW 34 35N 11W	NW NW SW 36 35N 11W
Round Pound Hollow	Pulaski	3.0	SW SW NE 33 36N 11W	SE SE NW 25 36N 11W
Gillis Hollow	Pulaski	1.0	SW SE NE 21 36N 11W	NE SW NW 15 36N 11W
Trib. to Gasconade R.	Pulaski	1.0	NE NW 11 35N 13W	NW SE NE 03 35N 13W
Jug Run	Ralls	1.5	NW SE SW 36 55N 06W	SW SW SW 06 54N 05W
Unnamed trib.	Reynolds	1.0	NE SW SE 16 32N 01E	SE SW SE 20 32N 01E
Logan Cr.	Reynolds	13.0	NW SW SE 02 30N 02W	SW NW NE 32 30N 01E
Logan Cr.	Reynolds	8.0	SE SE NW 36 32N 02W	NE SW SE 02 30N 02W
W. Fk. Huzzah Cr.	Reynolds Dent	4.0	SW NW SW 04 33N 03W	NE NW NW 22 34N 03W
Ellington Hollow	Reynolds	2.0	NE SW SE 05 31N 01E	NE SE SE 29 32N 01E
Harrison Valley	Reynolds	5.0	NE SE SW 03 31N 01E	NW SW SW 36 31N 01E
Sinking Cr.	Reynolds	14.0	NE SE SW 02 31N 01W	SW SE SW 22 30N 02E
Dry Valley	Reynolds	10.0	SE SW NE 17 31N 01W	NW NW NW 29 30N 01E
Dickens Valley	Reynolds	10.0	SE NE SW 29 31N 01W	SE NE NW 01 29N 01W
Tom's Cr.	Reynolds	5.5	NW SE SE 07 32N 02W	NW NW SE 01 32N 02W
Bee Fk.	Reynolds	6.0	NE SW SE 21 32N 02W	SW SE SE 24 32N 02W
Bee Fk.	Reynolds	2.0	NW NE SE 19 32N 02W	NE SW SE 21 32N 02W
Big Cr.	Reynolds	3.5	NW NW SE 19 32N 02W	SW NE NE 06 31N 02W
Toms Cr.	Reynolds	10.0	SW SW SW 18 32N 02W	NE SE SE 07 32N 02W
Smalls Cr.	Reynolds	1.5	NW SW SW 07 32N 02W	SE SE SW 06 32N 02W
Kitchell Cr.	Reynolds	2.0	SE SW SW 17 32N 02W	NE SW SW 15 32N 02W
L. Barren Cr.	Ripley	12.0	NW NW NW 30 25N 01W	SE SW NW 11 24N 01E
N. Fk. Buffalo Cr.	Ripley	5.0	SW SW NW 19 24N 01W	NW NE NE 23 24N 01W
Unnamed trib.	St. Charles	1.0	SE SE SW 01 45N 01E SE	NW NW 18 45N 02E
Callaway Fk.	St. Charles	3.5	NW SW NE 01 45N 01E	SE SE NW 21 45N 02E
Trib. to Kraut Run	St. Charles	0.5	*LA 38 43 6 LO 90 46 30 LA 38 43 52 LO 90 46 30	
Trib. to Dardenne Cr.	St. Charles	1.0	SE SW SE 27 46N 02E	46N 02E
Schote Cr.	St. Charles	1.0	*LA 38 42 19 LO 90 45 0 LA 38 42 48 LO 90 43 51	
Trib. to Schote Cr.	St. Charles	0.7	*LA 38 41 56 LO 90 44 14 LA 38 42 29 LO 90 44 10	
Trib. to Missouri R.	St. Charles	1.0	SW SW SE 31 46N 03E	SW NE NW 08 45N 03E
Trib. to Missouri R.	St. Charles	1.0	NE NW SW 32 46N 03E	SE SE NW 05 45N 03E
Trib. to Missouri R.	St. Charles	1.0	NE NE SW 06 45N 03E	SW NE NE 07 45N 03E
Trib. to Missouri R.	St. Charles	0.5	NE SE NW 34 46N 03E	NE NE NE 03 45N 03E
Trib. to Missouri R.	St. Charles	1.0	NW SE NW 04 45N 03E	NW SE NE 04 45N 03E
Trib. to Missouri R.	St. Charles	0.5	NE SE SE 33 46N 03E	SW NW NW 03 45N 03E
L. Femme Osage Cr.	St. Charles	0.5	NE NE SE 03 45N 02E	NW NE SW 03 45N 02E
Trib. to L. Femme Osage Cr.	St. Charles	1.0	SW NE NW 01 45N 02E	SW SW SW 06 45N 03E

Trib. to L. Femme Osage Cr.	St. Charles	0.5	NW 01 45N 02E	SE SE SE 01 45N 02E
Trib. to L. Femme Osage Cr.	St. Charles	0.5	NW SW SE 01 45N 02E	SE NW NE 12 45N 02E
Trib. to L. Femme Osage Cr.	St. Charles	1.0	SW NE SE 34 46N 02E	NE NE SE 03 45N 02E
Trib. to L. Femme Osage Cr.	St. Charles	1.5	SW SE NE 09 45N 02E	SE NE NW 11 45N 02E
Trib. to Callaway Cr.	St. Charles	1.5	SE SE NW 04 45N 02E	SE NW NW 08 45N 02E
Trib. to Callaway Cr.	St. Charles	1.5	NW SW SW 32 46N 02E	SE NW NW 08 45N 02E
Trib. to Callaway Cr.	St. Charles	1.5	NW NE NE 05 45N 02E	NW SE NW 05 45N 02E
Trib. to Big R.	St. Francois	0.2	SW SW SE 24 38N 04E	SW NE NW 25 38N 04E
Keifer Cr.	St. Louis	3.0	NE NW NW 04 44N 04E	NW SE SE 14 44N 04E
Trib. to Keifer Cr.	St. Louis	1.0	SE NE NE 05 44N 04E	NW SW NE 09 44N 04E
Fishpot Cr.	St. Louis	5.0	NW NE SW 01 45N 04E	NE NE SW 13 44N 04E
Fishpot Cr.	St. Louis	5.0	NW NE SW 01 45N 04E	NE NW NW 13 44N 04E
Trib. to Fishpot Cr.	St. Louis	2.0	NW NW SE 03 44N 04E	NW NW NW 13 44N 04E
Trib. to Wildhorse Cr.	St. Louis	0.5	SE SE SE 32 45N 03E	W SW NE 32 45N 03E
Bonhomme Cr.	St. Louis	0.7	SE NW NE 11 44N 03E	SE SW NE 02 44N 03E
Trib. to Bonhomme Cr.	St. Louis	1.0	NW SW NW 02 44N 03E	NE SW SW 35 45N 03E
Trib. to Bonhomme Cr.	St. Louis	1.0	SE NE SE 03 44N 03E	SE SW SW 35 45N 03E
Hamilton Cr.	St. Louis	0.5	SW NW SE 10 44N 03E	NE NW NW 14 44N 03E
Hamilton Cr.	St. Louis	0.5	NE SE NW 14 44N 03E	NW SE NE 14 44N 03E
Trib. to Hamilton Cr.	St. Louis	1.0	SW NE NW 12 44N 03E	SE SE NE 14 44N 03E
Caulks Cr.	St. Louis	0.5	NE SW NE 06 44N 04E	NE NE SW 31 45N 04E
Caulks Cr.	St. Louis	3.0	NW NW SW 06 44N 04E	NE SE SE 13 45N 03E
Trib. to Caulks Cr.	St. Louis	1.0	NW SW NW 32 45N 04E	NW SE SW 30 45N 04E
Trib. to Mississippi R.	St. Louis	0.2	NW NW SE 24 43N 06E	NW NW SE 24 43N 06E
Trib. to Fox Cr.	St. Louis	2.0	SW SW NW 16 44N 03E S	E NW SE 19 44N 03E
S. Fk. Saline Cr.	Ste. Genevieve Perry	5.0	SE NW SW 30 35N 09E	NE SW SE 35 35N 09E
Anderson Hollow	Ste. Genevieve	3.0	SE NE SW 34 35N 08E	SE NW SW 30 35N 09E
Birch Cr.	Shannon	7.0	SE SE 21 27N 05W SW	NE SW 20 26N 05W
Unnamed trib.	Shannon	1.5	NE SW SW 08 29N 06W	SE SW NE 16 29N 06W
Johnny Hollow	Shannon	1.0	SW NE SE 06 27N 05W	SW NW SE 36 28N 06W
Black Valley Cr.	Shannon	6.0	SW NW NW 27 30N 06W	NE SE NW 05 29N 05W
Birch Cr.	Shannon	6.0	NW NE SW 32 27N 05W	SW NE SW 20 26N 05W
Unnamed trib.	Shannon	3.0	NW SE SE 31 27N 05W	NW SW NW 18 26N 05W
Unnamed trib.	Shannon	4.0	NE NW NW 34 27N 06W	NE SE NW 12 26N 06W
Spring Cr.	Shannon Oregon	18.0	NE SE NW 08 26N 06W	NE NW NW 27 25N 04W
Sycamore Cr.	Shannon	6.0	SW NW NW 01 27N 04W	NW SE SE 22 27N 03W
Pike Cr.	Shannon Carter	24.0	SW SE SW 16 27N 04W	NW NW SW 24 27N 01W
Pine Hollow	Shannon	2.0	SW NW NW 30 28N 04W	NE NW NE 17 28N 04W
L. Hurricane Cr.	Shannon	4.5	SE NW NW 21 27N 04W	SW NW SE 10 26N 04W
Hurricane Cr.	Shannon Oregon	15.0	SW NW SE 10 26N 04W	NE NE SW 34 25N 03W
Bee Fork Cr.	Shannon Oregon	7.0	SW SW SW 11 26N 05W	SE SE NW 11 25N 05W
Young Hollow	Shannon Carter	3.5	SW SE SW 10 26N 03W	SW NE NW 18 26N 02W
Unnamed trib.	Stone	0.8	NE NW SW 20 23N 22W	NW NW NE 30 23N 22W
Indian Cr.	Stone	1.5	SW NW SW 18 23N 22W	NW NW NE 30 23N 22W
Unnamed trib.	Stone	1.5	NE SW SW 35 24N 23W	NW NE SE 26 24N 23W
Devil Den Hollow	Stone	1.5	NE SE NW 27 23N 23W	SE NE SE 20 23N 23W
Schooner Cr.	Stone	0.5	SW SW NW 26 23N 23W	NW NE NE 34 23N 23W
W. Prong Goff Cr.	Stone	3.5	NW NW SE 06 24N 22W	NW SE NW 29 25N 22W
Trib. to W. Prong Goff Cr.	Stone	2.0	SE NE NE 06 24N 22W	SE NE NW 32 25N 22W
Trib. to W. Prong Goff Cr.	Stone	2.0	NW SW SE 30 25N 22W	NE SE SE 13 25N 23W
Cave Spring Hollow	Stone	1.5	SE NW NW 25 25N 24W	NW SE SW 19 25N 23W
Wheeler Br.	Stone	2.0	NE SW SE 14 25N 24W	SW NE SW 19 25N 23W
Hilton Hollow	Stone	1.5	NE NE NW 20 25N 24W	NW SE NE 17 25N 24W
Unnamed Trib.	Stone	1.5	NE SE SE 15 25N 24W	SE SW NW 10 25N 24W
Pine Run	Stone	3.0	NW NE NW 23 25N 24W	SE NW SW 31 25N 23W
Unnamed trib.	Stone	2.5	NW NE SE 13 25N 24W	SW SE SW 01 25N 24W
Rickman Spring Hollow	Stone	1.5	NW NE NW 26 26N 24W	NW SE NE 25 26N 24W
McCord Br.	Stone	6.0	NW SE SW 05 26N 24W	NE NE SW 02 25N 24W
Dodge Hollow	Stone	1.5	SW NW SE 06 25N 24W	SW SE NW 04 25N 24W
L. Crane Cr.	Stone	1.5	SE NW SW 31 26N 24W	SW SE SW 29 26N 24W
Right Hand Hollow	Stone	1.0	SW NW SE 29 24N 23W	NW NW SE 19 24N 23W
Wilson Run	Stone	1.0	NE SW SE 21 24N 23W	SW SE SE 17 24N 23W

Horse Cr.	Stone	2.0	SW SE NW 31 25N 22W	SW NE NE 26 25N 23W
Trib. to Horse Cr.	Stone	0.5	SE SE NE 36 25N 23W	NE NW SE 27 25N 23W
John Hollow	Stone	2.0	SW NW SE 31 25N 22W	SE SE SE 04 24N 23W
L. John Hollow	Stone	1.5	NW SW SE 36 25N 23W	NE SE SW 04 24N 23W
Smith Brown Hollow	Stone	2.0	NW SW SE 23 26N 23W	SE SE SW 36 26N 23W
Wilson Run	Stone	1.5	SE NE SE 33 24N 23W	SE SE NE 28 24N 23W
Trib. to Hilton Hollow	Stone	1.5	NE SW NW 22 25N 24W	NW NE NW 15 25N 24W
Trib. to Hilton Hollow	Stone	1.5	NW NE SW 18 25N 24W	SW NW NE 17 25N 24W
Trib. to Hilton Hollow	Stone	0.5	SW SW SE 18 25N 24W	NE SW NW 17 25N 24W
Trib. to McCullah Hollow	Stone	0.5	NE SE NW 03 26N 24W	SW NE NE 03 26N 24W
Trib. to McCullah Hollow	Stone Christian	1.5	SW NE NW 05 26N 24W	NW NW SE 04 26N 24W
Trib. to McCullah Hollow	Stone	0.5	NE SE NW 05 26N 24W	NW SW NW 04 26N 24W
Trib. to Railey Cr.	Stone	1.0	SW NE NE 02 23N 23W	SW NW SW 25 24N 23W
Trib. to Railey Cr.	Stone	1.0	N SE SE 35 24N 23W SW	NW SW 25 24N 23W
Trib. to Railey Cr.	Stone	1.5	NW NW NE 07 24N 22W	NE SW SW 12 24N 23W
Trib. to Railey Cr.	Stone	2.5	NW NE NE 19 24N 22W	NE SW SW 12 24N 23W
Trib. to Railey Cr.	Stone	1.5	NE NW SE 19 24N 22W	NE SE NE 26 24N 23W
Trib. to Railey Cr.	Stone	1.5	NW SE NW 19 24N 22W	NW SE NE 23 24N 23W
Trib. to Railey Cr.	Stone	0.3	NW SW NE 23 24N 23W	NW SE NW 23 24N 23W
Trib. to McCord Cr.	Stone	0.3	NW SE SE 08 26N 24W	SE NW NW 16 26N 24W
Trib. to McCord Cr.	Stone	1.0	NW NE NW 17 26N 24W	NE SW NE 16 26N 24W
Trib. to McCord Cr.	Stone	1.0	NE NE NW 15 26N 24W	NW SW SW 15 26N 24W
Trib. to Spring Cr.	Stone	0.5	SE SW NE 26 26N 24W	SE NW NW 25 26N 24W
Trib. to Spring Cr.	Stone	0.5	SW SE NE 26 26N 24W	SE SE NW 25 26N 24W
Trib. to Spring Cr.	Stone	1.0	SE NE SE 26 26N 24W	NW SW NE 25 26N 24W
Trib. to Spring Cr.	Stone	1.0	NE NW NW 05 26N 23W	SW SW SE 31 27N 23W
Trib. to Spring Cr.	Stone	1.0	SW NE NW 05 26N 23W	SW SE NW 06 26N 23W
Trib. to Spring Cr.	Stone	1.5	NE SE NW 05 26N 23W	NW SE SW 07 26N 23W
Trib. to Spring Cr.	Stone	1.5	NW NE NE 08 26N 23W	NW SE SW 07 26N 23W
Trib. to Spring Cr.	Stone	1.0	NE NE SE 08 26N 23W	SE NE SE 07 26N 23W
Trib. to Spring Cr.	Stone	1.0	NW SE NW 17 26N 23W	NW SW SE 07 26N 23W
Trib. to Crane Cr.	Stone	0.5	SW NE SW 09 26N 23W	SE NE NW 15 26N 23W
Crane Cr.	Stone	0.5	SE NE NW 32 26N 24W	SW NE SE 32 26N 24W
Trib. to Crane Cr.	Stone	2.0	NW NW SE 06 26N 24W	SE SW NW 18 26N 24W
Trib. to Crane Cr.	Stone	1.0	NE NE NW 16 26N 23W	SE SE NW 15 26N 23W
Trib. to Crane Cr.	Stone	1.5	NE SW NW 16 26N 23W	SE NW NE 22 26N 23W
Trib. to Crane Cr.	Stone	1.0	NE SW SW 21 26N 23W	NE NW SW 27 26N 23W
Trib. to Crane Cr.	Stone	1.0	NE SE NW 32 26N 23W	SE NE SW 33 26N 23W
Trib. to Crane Cr.	Stone	0.5	SE SW NW 07 25N 23W	NW NW NE 07 25N 23W
Old Stillhouse Hollow	Stone	1.0	NE NE NW 35 26N 23W	SW NE SE 35 26N 23W
Trib. to Old Stillhouse Hollow	Stone	0.5	NW SW SW 35 26N 23W	NW NW SE 35 26N 23W
Trib. to Wheeler Br.	Stone	1.0	NE NE SE 13 25N 24W	SW SW NW 19 25N 23W
Trib. to Swan Cr.	Taney	0.5	SE NE NE 13 24N 20W	NE NW NE 13 24N 20W
Trib. to Swan Cr.	Taney	0.5	NW NW NW 27 24N 19W	SW NE SE 21 24N 19W
Trib. to Silver Cr.	Taney	0.5	NW SE SE 16 23N 20W	SW NE SW 16 23N 20W
Brushy Cr.	Texas	2.5	SW NW SW 07 32N 08W	SW NW SE 10 32N 09W
Spring Cr.	Texas	2.0	NE NE NW 32 33N 08W	NW SW SE 36 33N 09W
Musgrave Hollow	Texas	1.0	SE SE SE 09 33N 11W	NW SE SE 04 33N 11W
Spring Cr.	Texas Phelps	17.0	NE NE SE 01 32N 09W	SE NW SE 36 35N 10W
Big Cr.	Texas Shannon	13.0	SE NE SE 17 30N 07W	NE NW SW 04 31N 06W
Kelly Hollow	Texas	3.0	NW SW SE 32 31N 08W	SE SW NW 25 31N 09W
L. Paddy Cr.	Texas	1.5	NW NE NW 03 32N 11W	NW SE SE 35 33N 11W
B. Paddy Cr.	Texas	3.0	SW NW SW 24 32N 11W	NE NE NE 18 32N 10W
Bald Ridge Cr.	Texas Pulaski	5.5	SW SE NW 22 33N 11W	NW SW NE 36 34N 11W
Castro Valley	Texas Shannon	8.0	NE SE NW 01 29N 07W	NW SE NW 06 29N 05W
Mooney Br.	Texas	2.0	NE NE NE 19 33N 09W	NE SW NW 12 33N 10W
Van Zant Cr.	Texas	2.5	SW NE SW 19 29N 11W	NE SW NE 14 29N 12W
Spring Valley	Texas Shannon	29.0	SW SW SE 13 29N 08W	SE SE NW 20 30N 04W
Dry Bone Cr.	Texas	1.0	NW SW SW 21 30N 07W	SE NE SE 17 30N 07W
S. Ashley Cr.	Texas Dent	6.0	NE SE NW 18 31N 07W	SW SE NE 34 32N 07W
Trib. to Piney Cr.	Texas	1.5	SE SE SW 04 29N 10W	NE NE NE 03 29N 10W
Trib. to N.Fk. Charrette Cr.	Warren	0.5	S2 33 47N 02W	SE SE NE 04 46N 02W

Unnamed Trib. to Smoot Hollow	Wayne	2.0	NE SE SE 34 28N 05E	NW SW SE 07 27N 06E
Pleasant Valley	Wayne	2.5	SW SW SW 34 28N 05E	SE SE NW 23 28N 05E
Barren Fk.	Wayne	3.0	NW SE NW 03 28N 04E	SW NE SE 21 28N 04E
Smoot Hollow	Wayne	4.0	SE SW SE 33 28N 05E	NE NE SW 07 27N 06E
Otter Cr.	Wayne	16.0	NE NE NW 05 28N 04E	SW NW NW 18 27N 06E
Unnamed Trib.	Wayne	1.0	SW SW SW 32 29N 04E	SW SW SW 31 29N 04E
Terrel Br.	Webster	2.0	NE SW NE 08 28N 18W	NW SW NE 20 28N 18W
Burks Hollow	Webster	2.5	SE SE SE 36 29N 19W	NW NE SE 23 29N 19W
White Oak Cr.	Webster	1.0	NW NW NW 16 28N 19W	NW NE NE 18 28N 19W
Davis Br.	Webster	0.5	SW SE NE 21 28N 18W	SE NW SE 21 28N 18W
Pedelo Cr.	Webster Christian	4.5	NE SW SW 22 28N 19W	NW NW SE 06 27N 19W
Pedelo Cr.	Webster	3.0	SW SE NW 24 28N 19W	NE SW SW 22 28N 19W
Trib. to Pedelo Cr.	Webster	0.5	NW NW SE 14 28N 19W	NW SW NE 23 28N 19W
Trib. to Pedelo Cr.	Webster	0.5	SE NW SW 14 28N 19W	SE NE NE 22 28N 19W
Trib. to Pedelo Cr.	Webster	1.5	SW NE SW 23 28N 19W	NW SE NW 27 28N 19W
Trib. to Pedelo Cr.	Webster	2.0	NW NW NE 25 28N 19W	SE SE SW 27 28N 19W
Trib. to Pedelo Cr.	Webster	1.0	SW NW SW 24 28N 19W	SE SW NE 26 28N 19W
Trib. to Pedelo Cr.	Webster	0.5	NW SW SW 25 28N 19W	SE SE NW 26 28N 19W
Greasy Cr.	Webster	0.5	SE NW SE 13 28N 19W	SE SE SE 13 28N 19W
Peck Hollow	Webster	0.5	NW NW NE 21 28N 19W	SW SW NW 21 28N 19W
Peck Hollow	Webster Christian	2.0	SW SW NW 21 28N 19W	NW NE SE 32 28N 19W
Trib. to Peck Hollow	Webster	1.0	SE SW NE 21 28N 19W	SW SW SW 21 28N 19W
Sawyer Cr.	Webster	2.0	NW SW SW 17 28N 19W	NW SE SW 07 28N 19W
Trib. to Sawyer Cr.	Webster	0.5	NE SW NW 20 28N 19W	NE SW SW 17 28N 19W
Trib. to Sawyer Cr.	Webster	0.5	SW SW SE 18 28N 19W	SW SE NE 18 28N 19W
Trib. to Sawyer Cr.	Webster	1.5	NE NE NW 32 29N 19W	SE NW SE 36 29N 20W
Trib. to Sawyer Cr.	Webster	0.5	NE NE NW 31 29N 19W	NE NE SW 31 29N 19W
Trib. to Sawyer Cr.	Webster	0.5	SW SE NE 08 28N 19W	NE NE SE 07 28N 19W
Trib. to Sawyer Cr.	Webster	1.0	NW NE NW 08 28N 19W	SW SE NW 07 28N 19W
Trib. to Sawyer Cr.	Webster	0.5	NW NE NE 07 28N 19W	NE SW NW 07 28N 19W
Panther Cr.	Webster	1.0	NE NE NW 35 29N 18W	NE NE NE 34 29N 18W
Trib. to Panther Cr.	Webster	0.5	SW NE SW 26 29N 18W	NE NE NE 34 29N 18W
Trib. to Panther Cr.	Webster	1.5	NE NE SW 15 29N 19W	SW SW SW 22 29N 19W
Dry Fk. Panther Cr.	Webster	1.5	NW NE SE 12 28N 19W	NW NE SW 11 28N 19W
Dry Fk. Panther Cr.	Webster	1.0	NW NE SW 03 28N 19W	SE SE NE 33 29N 19W
Trib. to Dry Fk. Panther Cr.	Webster	0.5	SW SE NE 09 28N 19W	NW NW NW 10 28N 19W
Trib. to Dry Fk. Panther Cr.	Webster	3.0	NW SW NW 06 28N 18W	SE SE SE 28 29N 19W
Trib. to Dry Fk. Panther Cr.	Webster	1.5	NE SW SW 01 28N 19W	NE NE SW 11 28N 19W
Trib. to Dry Fk. Panther Cr.	Webster	0.5	SE NE NW 14 28N 19W	NW NE SW 11 28N 19W
Trib. to Cry Fk. Panther Cr.	Webster	0.5	SE NE SE 11 28N 19W	SE NE SW 11 28N 19W
Compton Br.	Webster	1.5	NE NE NW 15 29N 19W	SW NW SW 09 29N 19W
Trib. to Compton Br.	Webster	0.5	NE SE SW 10 29N 19W	SW SE SE 09 29N 19W
Trib. to James R.	Webster	0.5	NE SE SW 34 29N 17W	NW SE NE 34 29N 17W
Trib. to James R.	Webster	1.0	SE SW SE 34 29N 17W	NW SE SE 27 29N 17W
Norman Br.	Webster	2.0	SW NW NE 09 28N 19W	NW SW NE 06 28N 19W
Trib. to Norman Br.	Webster	0.5	04 28N 19W	05 28N 19W
Trib. to Norman Br.	Webster	1.0	SW SW SW 33 29N 19W	NW SW NE 06 28N 19W
Trib. to Norman Br.	Webster	0.5	NW NW NW 09 28N 19W	NW NE SE 05 28N 19W
White Oak Hollow	Webster	1.0	SW SW SE 10 28N 19W	SW NE NW 16 28N 19W
Trib. to White Oak Hollow	Webster	1.0	SE NE SE 16 28N 19W	SE SE NE 17 28N 19W
Trib. to White Oak Hollow	Webster	0.5	NE SW SE 09 28N 19W	NE NW NW 16 28N 19W
Trib. to White Oak Hollow	Webster	1.0	SE NW SE 08 28N 19W	NE NE NE 18 28N 19W
Trib. to N. Carolina Cr.	Webster	2.0	SE NW SE 07 29N 18W	SE NW SE 11 29N 19W
Trib. to N. Carolina Cr.	Webster	0.5	NW NW NE 07 29N 18W	NE SW NW 07 29N 18W
Trib. to N. Carolina Cr.	Webster	1.0	NE SW SW 07 29N 18W	NE NW SE 11 29N 19W
Trib. to N. Carolina Cr.	Webster	1.0	NW NW NE 13 29N 19W	NW NE SE 11 29N 19W
Trib. to N. Carolina Cr.	Webster	0.5	SW NW NE 13 29N 19W	NE SW SW 12 29N 19W
Trib. to N. Carolina Cr.	Webster	0.5	SW SW NW 13 29N 19W	SE NE SE 11 29N 19W
Trib. to N. Carolina Cr.	Webster	0.5	NE NW NE 14 29N 19W	SE SW NE 11 29N 19W
Dry Cr.	Webster	0.5	SE 05 29N 18W	NW 05 29N 18W
Trib. to Dry Cr.	Webster	1.0	NW SE NW 24 29N 18W	NW NW NE 23 29N 18W
Trib. to Dry Cr.	Webster	0.5	SW NW SW 24 29N 18W	NW NW NE 23 29N 18W

Trib. to Dry Cr.	Webster	1.0	SE SW SE 23 29N 18W	NW NW NE 23 29N 18W
L. Finley Cr.	Webster	0.5	SE SE SE 03 28N 17W	SE NW SE 04 28N 17W
Trib. to Dry Cr.	Webster	1.0	SE NW NW 26 29N 18W	SW SE SW 14 29N 18W
Trib. to L. Finley Cr.	Webster	0.5	SW SE NE 09 28N 17W	SE SW NW 09 28N 17W
Trib. to L. Finley Cr.	Webster	0.5	NE SE NE 09 28N 17W	NW SE SE 04 28N 17W
Trib. to L. Finley Cr.	Webster	0.5	SE SE NW 10 28N 17W	NE NE NW 10 28N 17W
Trib. to Finley Cr.	Webster	0.3	SW SW SE 02 28N 17W	NE SE NE 11 28N 17W
Unnamed Trib.	Webster	3.0	SW NW SW 25 29N 18W	NE NE NW 18 29N 17W
Davis Br.	Webster	4.5	NW NE NE 36 29N 18W	SE NW SW 11 28N 18W
Trib. to Davis Cr.	Webster	1.0	NE NE NE 09 28N 18W	SW NW NE 16 28N 18W
Trib. to Davis Br.	Webster	1.0	NW NE NW 36 29N 18W	SE NW NW 01 28N 18W
Trib. to Davis Br.	Webster	0.5	SW NW NW 36 29N 18W	NE NW SW 36 29N 18W
Trib. to James R.	Webster	0.5	NE NE SE 26 29N 17W	SW SW SE 23 29N 17W
Trib. to Davis Br.	Webster	0.5	NE NE SW 01 28N 18W	NW NE NE 02 28N 18W
Trib. to Davis Br.	Webster	0.5	NW NE NW 12 28N 18W	SE SW SE 02 28N 18W
Trib. to James R.	Webster	0.5	NW SE NW 26 29N 17W	SE SE SW 23 29N 17W
W. Wildcat Cr.	Webster	1.0	SW SE SW 29 29N 17W	NW SW SW 20 29N 17W
W. Wildcat Cr.	Webster	3.0	NE SE SE 25 29N 18W	NW SE SW 17 29N 17W
Trib. to W. Wildcat Cr.	Webster	0.5	NE SW SE 29 29N 17W	SE SE NE 30 29N 17W
Trib. to W. Wildcat Cr.	Webster	0.5	SW SE NE 25 29N 18W	NW NW NE 30 29N 17W
Trib. to James R.	Webster	0.3	NW SE NW 34 29N 17W	SE SE SW 27 29N 17W
Trib. to Osage Fk.	Webster	0.5	SW NE SW 12 30N 18W	NE NW SW 07 30N 17W
Trib. to Osage Fk.	Webster	0.5	NE NW NE 13 30N 18W	NE NW SW 07 30N 17W
W. Fk. Niangua R.	Webster	0.4	NW NW SE 28 31N 18W	NW SE NW 28 31N 18W
W. Fk. Niangua R.	Webster	0.9	NE SW NW 04 31N 18W	SE NE SW 33 32N 18W
Trib. to W. Fk. Niangua R.	Webster	0.5	NE SE NE 28 31N 18W	SW SW NE 28 31N 18W
E. Fk. Niangua R.	Webster	1.0	NW NE NW 03 31N 18W	SE NE SW 33 32N 18W
Niaugua R.	Webster	0.4	SE NE SW 33 32N 18W	SE SW NW 33 32N 18W
Givins Br.	Webster	3.6	SW SW NW 01 31N 19W	SW SW NW 29 32N 18W
Hawk Pond Br.	Webster	2.1	NW NE NE 35 32N 19W	NW SW SW 19 32N 18W
Unnnamed Trib.	Wright	3.0	SE SW SE 18 28N 13W	NW NW NE 05 28N 13W
Fox Cr.	Wright Douglas	4.0	NW NE NE 30 28N 13W	SW NE NE 09 27N 13W
Fox Cr.	Wright Douglas	20.0	NE NE SW 20 28N 13W	SE NE NE 29 25N 13W
Steins Cr.	Wright	8.0	SW SW SW 22 31N 15W	NW NE NE 22 32N 15W
Elk Cr.	Wright	4.5	NW NE NW 08 31N 14W	SW NE NE 26 32N 14W
Dry Cr.	Wright Douglas	7.5	SW NE NW 24 28N 14W	SE SW SW 17 27N 14W
Prairie Hollow Cr.	Wright Douglas	3.0	SE SW SW 28 28N 15W	SW SW SE 03 27N 15W
Prairie Hollow Cr.	Wright Douglas	2.0	SW NW SW 28 28N 15W	NE SE SW 03 27N 15W
Fry Cr. and Wolf Cr.	Wright	3.0	NW SW SW 11 28N 15W	SW NW SE 25 29N 15W

*Note: Three of the following four streams are located in areas covered by old French surveys where projections onto section/township/range are difficult to interpret and generally not useful for locational purposes. As an alternative the geographic coordinates are included. LA is latitude and LO is longitude. This method of listing would allow an easier comparison with topographic maps.

AUTHORITY: sections 644.021, RSMo Supp. 2011, and section/ and 644.026, RSMo [2000] Supp 2012. Original rule filed May 13, 1977, effective Dec. 11, 1977. For intervening history, please consult the Code of State Regulations. Amended: Filed May 15, 2013.

PUBLIC COST: The proposed amendment will cost public entities up to \$1,015,993,574 in the aggregate for the construction of wastewater treatment system upgrades. In addition, public entities will pay up to \$67,401,536 in the aggregate annually for system operation, maintenance, and reporting. It is anticipated that the operation, maintenance, and reporting costs will recur over the life of the rule and will vary with inflation.

PRIVATE COST: The proposed amendment will cost private entities up to \$989,971,392 in the aggregate for the construction of wastewater treatment system upgrades. In addition, private entities will pay up to \$110,949,801 in the aggregate annually for system operation, maintenance, and reporting. It is anticipated that the operation, maintenance, and reporting costs will recur over the life of the rule and will vary with inflation.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Department of Natural Resources, Division of Environmental Quality, Water Protection Program, John Hoke, PO Box 176, Jefferson City, MO 65102. Comments may be sent with name and address through email to john.hoke@dnr.mo.gov. Public comments must be received by September 18, 2013. The public hearing is scheduled at a meeting of the Clean Water Commission to be held at 9 AM, on September 11, 2013, at the Department of Natural Resources, Lewis and Clark State Office Building, LaCharrette/Nightingale Conference Rooms, 1101 Riverside Drive, Jefferson City, Missouri 65101.

**FISCAL NOTE
PUBLIC COST****I. RULE NUMBER**

<i>Rule Number and Name:</i>	10 CSR 20-7.031 Water Quality Standards
<i>Type of Rulemaking:</i>	Proposed Amendment

This rulemaking includes revisions that ensure that state water quality standards (WQS) are functionally equivalent to federal standards and that improve the clarity, specificity and effectiveness of the rule. In summary, the revisions include the following:

Clean Water Act Section 101(a) use designations: The department is providing a recommendation that responds to the U.S. Environmental Protection Agency (EPA) request Missouri expand its classification system to currently unclassified waters, or otherwise satisfy the rebuttable presumption of “fishable/swimmable” uses as required by Section 101(a) of the federal Clean Water Act (CWA). EPA notified the department of this deficiency by letter on September 8, 2000 following a previous triennial review. More recently, on February 16, 2012 the U.S. District Court for the Western District of Missouri found that the water quality standards, as submitted in 2005, did not meet the requirements of the Clean Water Act.

Changes to Clean Water Act use designation definitions: Use designations for the protection of aquatic life will be refined to support a tiered aquatic habitat protection framework based on data and information found in Missouri’s Aquatic Gap project. Tiered aquatic habitat protection uses will provide for better implementation and protection of aquatic life in rule. Additionally, the existing Human Health Protection – Fish Consumption use designation will be renamed to Human Health Protection.

Changes to the designation of Whole Body Contact Recreation and Secondary Contact Recreation as a result of Use Attainability Analyses: These changes are results from the last series of Use Attainability Analyses (UAAs) conducted in 2007 and 2008 that were either disapproved or required additional action following Missouri’s 2009 WQS triennial review. This action would include adding whole body contact recreation (WBC) use to stream segments where this use is attainable or existing, designating secondary contact recreation (SCR) to stream segments where existing SCR uses were observed, and removing the WBC use on stream segments where this use is unattainable. These changes will be made to 10 CSR 20-7.031, Table H and in the NHD geospatial dataset developed and maintained by the department.

Changes to use designations for specific water body segments: The department is restoring use designations for two water body segments where specific use designations were inadvertently removed during a previous rulemaking without sufficient justification or cause. Restoration of the irrigation (IRR) use to the Mississippi River (Water Body ID: 1707.03) and the drinking water supply (DWS) use to Prairie Home C.A. Lake (Water Body ID: 7444) will address a disapproval from EPA in its August 16, 2011 letter to the Department regarding the 2009 WQS triennial review.

Updating reference to Missouri's Antidegradation Implementation Procedure: This revision updates reference to Missouri's Antidegradation Implementation Procedure (AIP) at 10 CSR 20-7.031(3)(D) which was revised and approved by the Missouri Clean Water Commission May 2, 2012. The sole revision to the AIP reduces the 20% cumulative cap for in-stream degradation to 10%, a value supported by EPA in their July 2, 2009 and August 16, 2011 letters to the department on this issue.

Revised delineation and mileages of Dry Fork Creek, Maries County: This revision uses more accurate Geographic Information System (GIS) and geologic and hydrologic field survey data to refine the start and end point of this losing stream segment. This item was omitted from the last order of rulemaking due to lack of public participation and is included here by Clean Water Commission directive. These changes will be made to 10 CSR 20-7.031, Table J and in the NHD geospatial dataset developed and maintained by the department.

Revised definitions and criteria relating to wetlands: This revision updates references to wetlands and improves the clarity of definitions for Class W water at 10 CSR 20-7.031(1)(F)8. and wetlands at 10 CSR 20-7.031(1)(CC).

Revised delineation and mileages of water body segments: These improvements use more accurate Geographic Information System (GIS) data to refine the delineation of start and end points of water body segments and recalculate stream mileages. The improvements use data and information contained in the 1:100,000 and 1:24,000 National Hydrography Dataset (NHD) and Missouri's aquatic gap project.

Revision of schedule of compliance language: This revision updates the schedule of compliance language at 10 CSR 20-7.031(11) to be consistent with the language approved by EPA on January 25, 2013. The revision removes the phrase "with all deliberate speed and" from the above referenced subparagraph.

Addition of variance authorizing provisions: This provision would provide the basis for recommending variances to WQS when standards are not achievable through traditional regulatory approaches. The addition can be found at 10 CSR 20-7.031(12).

Updating Water Quality Standards Reference Documents and Language: References to water quality standards documents have been added or updated and clarifying water quality standards language has been added to ensure standards are implemented accurately.

Revised definition for sulfate and chloride: This revision will provide methods for determining default sulfate and chloride concentrations for use in calculations of numeric water quality criteria for these pollutants. These methods were inadvertently omitted from the previous rulemaking that revised numeric water quality criteria for sulfate and chloride. The revision can be found at 10 CSR 20-7.031(5)(L).

Correction of Typographical Errors and References: These changes correct several typographical errors discovered after the effective date of the last revisions to the WQS in 2012 and update references to new or modified definitions and rule language.

II. SUMMARY OF FISCAL IMPACT

This proposed amendment will cost public entities up to \$1,015,993,574 in the aggregate for the construction of wastewater treatment system upgrades. In addition, public entities will pay up to \$67,401,536 in the aggregate annually for system operation, maintenance and reporting. It is anticipated that the operation, maintenance and reporting costs will recur over the life of the rule and will vary with inflation. The majority of costs to public entities are from implementation of federal Clean Water Act Section 101(a) presumed "fishable/swimmable" uses for currently unclassified waters; all other revisions are not anticipated to cost public entities.

Disinfection Requirements: Clean Water Act Section 101(a) Use Designations and Changes to the Designation of Whole Body Contact Recreation and Secondary Contact Recreation as a Result of Use Attainability Analyses

<i>Estimate of the number of entities by class which would likely be affected by the adoption of the proposed rule.</i>	<i>Classification by types of the business entities which would likely be affected.</i>	<i>Estimate in the aggregate as to the cost of compliance with the rule by the affected entities.</i>
247 facilities may be required to install a disinfection system to comply with the bacteria standard applicable to waters with recreational uses.	Publicly owned facilities operating domestic wastewater treatment facilities (WWTFs) under a state discharge permit. Examples include: municipal and government-owned facilities with wastewater treatment.	Construction Cost = \$303,765,066 Operation and Maintenance (O&M) Cost = \$16,988,317 - see further breakdown of costs in worksheets below -
112 facilities	Public facilities that do not presently disinfect wastewater discharges with design flows of less than or equal to 0.05 million gallons per day (mgd)	Construction Cost = \$77,252,352 O&M Cost = \$6,882,324
123 facilities	Public facilities that do not presently disinfect wastewater discharges with design flows of greater than 0.05 mgd but less than or equal to 1.0 mgd	Construction Cost = \$168,583,079 O&M Cost = \$8,498,047
12 facilities	Public facilities that do not presently disinfect wastewater discharges with design flows of greater than 1.0 mgd but less than or equal to 20.0 mgd	Construction Cost = \$57,929,635 O&M Cost = \$1,607,946
0	Public facilities that do not presently disinfect wastewater discharges with design flows of greater than 20.0 mgd	\$0

Ammonia Treatment Requirements: Clean Water Act Section 101(a) Use Designations

<i>Estimate of the number of entities by class which would likely be affected by the adoption of the proposed rule.</i>	<i>Classification by types of the business entities which would likely be affected.</i>	<i>Estimate in the aggregate as to the cost of compliance with the rule by the affected entities.</i>
397 facilities may be required to upgrade treatment systems to comply with the ammonia standards applicable to waters with aquatic life protection.	Publicly owned facilities operating domestic wastewater treatment facilities (WWTFs) under a state discharge permit. Examples include: municipal and government-owned facilities with wastewater treatment.	Construction Cost = \$712,228,508 Operation and Maintenance (O&M) Cost = \$50,413,219 - see further breakdown of costs in worksheets below -
218 facilities	Public facilities that do not presently treat ammonia in wastewater with design flows of less than or equal to 0.05 million gallons per day (mgd)	Construction Cost = \$164,400,449 O&M Cost = \$18,967,627
170 facilities	Public facilities that do not presently treat ammonia in wastewater with design flows of greater than 0.05 mgd but less than or equal to 1.0 mgd	Construction Cost = \$373,381,095 O&M Cost = \$25,065,179
9 facilities	Public facilities that do not presently treat ammonia in wastewater with design flows of greater than 1.0 mgd but less than or equal to 20.0 mgd	Construction Cost = \$174,446,964 O&M Cost = \$6,380,413
0	Public facilities that do not presently treat ammonia in wastewater with design flows of greater than 20.0 mgd	\$0

III. WORKSHEET

Cost estimates for disinfection were derived using the department's affordability estimation procedure for upgrading wastewater treatment systems. The software uses flow-based cost interpolation for design of chlorine and ultraviolet disinfection systems based upon EPA's Computer Assisted Procedure for the Design and Evaluation of Wastewater Treatment Systems (CAPDET). The low and high cost estimates for public facilities to comply with disinfection requirements under the proposed rule can be found in Table 1 below.

Table 1. Public Facility Costs for Disinfection by Design Flow (DF)

	Capital Cost	Capital Cost	Annual O&M	Annual O&M		
Design Flow (DF) in MGD	Low	High	Low	High	Total Low	Total High
DF ≤ 0.05	\$14,784,000	\$77,252,352	\$457,968	\$6,882,324	\$15,241,968	\$84,134,677
0.05 < DF ≤ 1	\$25,320,493	\$168,583,079	\$910,062	\$8,498,047	\$26,230,556	\$177,081,126
1 < DF ≤ 20	\$25,852,104	\$57,929,635	\$785,711	\$1,607,946	\$26,637,815	\$59,537,581
DF > 20	\$0	\$0	\$0	\$0	\$0	\$0
	\$65,956,597	\$303,765,066	\$2,153,741	\$16,988,317	\$68,110,338	\$320,753,384

Cost estimates for ammonia removal were derived using the department's affordability estimation procedure for upgrading wastewater treatment systems. The software uses flow-based cost interpolation for design of wastewater treatment systems based upon EPA's Computer Assisted Procedure for the Design and Evaluation of Wastewater Treatment Systems (CAPDET). The low and high cost estimates for capital construction costs consider four wastewater treatment technologies: 1) lagoon facility with additional aeration, 2) sequencing batch reactor (SBR) facility, 3) extended aeration facility, and 4) oxidation ditch. The low and high cost estimates for public facilities to comply with ammonia treatment requirements under the current and proposed rule can be found in Table 2 below.

Table 2. Public Facility Cost for Ammonia Treatment by Design Flow (DF)

Design Flow (DF) in MGD	Capital Cost	Capital Cost	Annual O&M	Annual O&M	Total Low	Total High
	Low	High	Low	High		
DF ≤ 0.05	\$84,244,013	\$164,400,449	\$9,814,967	\$18,967,627	\$94,058,980	\$183,368,076
0.05 < DF ≤ 1	\$137,072,692	\$373,381,095	\$17,005,101	\$25,065,179	\$154,077,793	\$398,446,274
1 < DF ≤ 20	\$112,675,747	\$174,446,964	\$4,225,113	\$6,380,413	\$116,900,860	\$180,827,377
DF > 20	\$0	\$0	\$0	\$0	\$0	\$0
	\$333,992,452	\$712,228,508	\$31,045,181	\$50,413,219	\$365,037,633	\$762,641,727

IV. ASSUMPTIONS

The costs assume that upgrades will be accomplished over a multi-year period, depending on the complexity and type of installation. Installation of disinfection equipment may only require a year to complete, but more complex installations of disinfection or ammonia removal may take longer. Because most facilities will be allowed a schedule of compliance consistent with federal regulation, the estimated cost will likely be incurred over a multi-year period.

Assumptions from CAPDET are administrative labor costs of \$25/hr; laboratory labor costs of \$20/hr; all land necessary for upgrades is available (\$0/acre); capital costs are project costs as calculated by CAPDET and annual operation and maintenance costs include operation, maintenance, material, chemical and energy costs from CAPDET. Interest rate is calculated as interest rate divided by 100 and is the current rate for bonds on the market.

Disinfection

Chlorine

Capital Cost

IF FLOW < 0.25 MGD: Cost = $-8,316,555(\text{FLOW})^2 + 6,399,838(\text{FLOW}) + 548,253$

IF FLOW ≥ 0.25 MGD: Cost = $-59,066(\text{FLOW})^2 + 1954508(\text{FLOW}) + 1420009$

Annual O&M Cost = $-1237.1(\text{FLOW})^2 + 40764(\text{FLOW}) + 61510$

UV

Capital Cost

IF Flow < 0.1 MGD: Cost = 132,000

IF Flow ≥ 0.1 MGD: Cost = $-38762.02(\text{FLOW})^2 + 1357622.85(\text{FLOW}) - 121232.45$

Annual O&M Cost

IF Flow <0.1 MGD: Cost = 4,089
IF Flow ≥0.1 MGD: Cost = 36430.74(FLOW) - 212.49

Due to the limitations of CAPDET, for ultraviolet disinfection costs are assumed identical for flow up to 100,000 gpd.

Ammonia Treatment

Treatment technologies used to determine ammonia treatment costs are as follows: 1) lagoon facility with additional aeration, 2) sequencing batch reactor (SBR) facility, 3) extended aeration facility, and 4) oxidation ditch. For treatment technologies 1 – 4, sludge handling, sludge treatment, and disinfection is not included in the project, annual, or present worth costs. Structural age of 20 years was used. Cost estimates were derived using a flow-based cost interpolator where costs are based on best fit trendlines for cost data, and are not a direct interpolation. The equations used for the cost estimates are given below.

Treatment 1 – Lagoon Facility with additional aeration

For treatment technology 1, it is assumed the lagoon is already in place and that aeration equipment is being added. Excavation costs were reduced from the design.

Capital Cost = $-3530223 \cdot \text{FLOW}^2 + 2813817 \cdot \text{FLOW} + 370020$

Annual O&M Cost = $\text{EXP}(1.195 \cdot \text{FLOW} + 11.34)$

Treatment 2 – Sequencing Batch Reactor (SBR) facility

For treatment technology 2, effluent limits are capable of being set, so design parameters were to meet a BOD of less than 10 mg/L and a TSS of less than 15 mg/L. Flow equalization is necessary with an SBR to meet disinfection requirements without oversizing the structure.

Capital Cost:

IF Flow <2 MGD: Cost = $\text{EXP}(0.6019 \cdot \text{LN}(\text{FLOW}) + 15.797)$
IF Flow ≥2 MGD: Cost = $2961224(\text{FLOW}) + 5653061$

Annual O&M Cost:

IF Flow <2 MGD: Cost = $337741(\text{FLOW})^{0.411}$
IF Flow ≥2 MGD: Cost = $297048(\text{FLOW})^{0.57}$

Treatment 3 – Extended Aeration facility

For treatment technology 3, solids retention time (SRT) was set at 28 days. Effluent limits can not be set in CAPDET for extended aeration; however the treatment technology can meet the ammonia limits of 1 mg/L.

Capital Cost:

IF Flow <0.1 MGD: Cost = $\text{EXP}(0.3319 \cdot \text{LN}(\text{FLOW}) + 14.869)$
IF $0.1 \leq \text{FLOW} < 2$: Cost = $\text{EXP}(0.6334 \cdot \text{LN}(\text{FLOW}) + 15.711)$
IF Flow ≥2 MGD: Cost = $4048979.5918 \cdot \text{FLOW} + 3622448.9796$

Annual O&M Cost = $845 \cdot (\text{FLOW})^3 - 16283 \cdot (\text{FLOW})^2 + 209507(\text{FLOW}) + 95575$

Treatment 4 – Oxidation Ditch

For treatment technology 4, the mixed liquor concentration was changed to be in the range identified by Metcalf and Eddy. Effluent from the oxidation ditch can meet the BOD of less than 10 mg/L and ammonia less than 1 mg/L.

Capital Cost:

IF Flow < 0.04 MGD: Cost = $3336385(\text{FLOW})^{0.4378}$

IF $0.04 \leq \text{FLOW} < 0.1$: Cost = $3878431(\text{FLOW})^{0.4758}$

IF Flow ≥ 0.1 MGD: Cost = $\text{EXP}(0.6171 * \text{LN}(\text{FLOW}) + 15.538)$

Annual O&M Cost:

IF Flow < 2 MGD: Cost = $\text{EXP}(12.455(\text{FLOW})^{0.0345})$

IF Flow ≥ 2 MGD: Cost = $82988(\text{FLOW}) + 135469$

**FISCAL NOTE
PRIVATE COST**

I. RULE NUMBER

<i>Rule Number and Name:</i>	10 CSR 20-7.031 Water Quality Standards
<i>Type of Rulemaking:</i>	Proposed Amendment

This rulemaking includes revisions that ensure that state water quality standards (WQS) are functionally equivalent to federal standards and that improve the clarity, specificity and effectiveness of the rule. In summary, the revisions include the following:

Clean Water Act Section 101(a) use designations: The department is providing a recommendation that responds to the U.S. Environmental Protection Agency (EPA) request Missouri expand its classification system to currently unclassified waters, or otherwise satisfy the rebuttable presumption of “fishable/swimmable” uses as required by Section 101(a) of the federal Clean Water Act (CWA). EPA notified the department of this deficiency by letter on September 8, 2000 following a previous triennial review. More recently, on February 16, 2012 the U.S. District Court for the Western District of Missouri found that the water quality standards, as submitted in 2005, did not meet the requirements of the Clean Water Act.

Changes to Clean Water Act use designation definitions: Use designations for the protection of aquatic life will be refined to support a tiered aquatic habitat protection framework based on data and information found in Missouri’s Aquatic Gap project. Tiered aquatic habitat protection uses will provide for better implementation and protection of aquatic life in rule. Additionally, the existing Human Health Protection – Fish Consumption use designation will be renamed to Human Health Protection.

Changes to the designation of Whole Body Contact Recreation and Secondary Contact Recreation as a result of Use Attainability Analyses: These changes are results from the last series of Use Attainability Analyses (UAAs) conducted in 2007 and 2008 that were either disapproved or required additional action following Missouri’s 2009 WQS triennial review. This action would include adding whole body contact recreation (WBC) use to stream segments where this use is attainable or existing, designating secondary contact recreation (SCR) to stream segments where existing SCR uses were observed, and removing the WBC use on stream segments where this use is unattainable. These changes will be made to 10 CSR 20-7.031, Table H and in the NHD geospatial dataset developed and maintained by the department.

Changes to use designations for specific water body segments: The department is restoring use designations for two water body segments where specific use designations were inadvertently removed during a previous rulemaking without sufficient justification or cause. Restoration of the irrigation (IRR) use to the Mississippi River (Water Body ID: 1707.03) and the drinking water supply (DWS) use to Prairie Home C.A. Lake (Water Body ID: 7444) will address a disapproval from EPA in its August 16, 2011 letter to the Department regarding the 2009 WQS triennial review.

Updating reference to Missouri's Antidegradation Implementation Procedure: This revision updates reference to Missouri's Antidegradation Implementation Procedure (AIP) at 10 CSR 20-7.031(3)(D) which was revised and approved by the Missouri Clean Water Commission May 2, 2012. The sole revision to the AIP reduces the 20% cumulative cap for in-stream degradation to 10%, a value supported by EPA in their July 2, 2009 and August 16, 2011 letters to the department on this issue.

Revised delineation and mileages of Dry Fork Creek, Maries County: This revision uses more accurate Geographic Information System (GIS) and geologic and hydrologic field survey data to refine the start and end point of this losing stream segment. This item was omitted from the last order of rulemaking due to lack of public participation and is included here by Clean Water Commission directive. These changes will be made to 10 CSR 20-7.031, Table J and in the NHD geospatial dataset developed and maintained by the department.

Revised definitions and criteria relating to wetlands: This revision updates references to wetlands and improves the clarity of definitions for Class W water at 10 CSR 20-7.031(1)(F)8. and wetlands at 10 CSR 20-7.031(1)(CC).

Revised delineation and mileages of water body segments: These improvements use more accurate Geographic Information System (GIS) data to refine the delineation of start and end points of water body segments and recalculate stream mileages. The improvements use data and information contained in the 1:100,000 and 1:24,000 National Hydrography Dataset (NHD) and Missouri's aquatic gap project.

Revision of schedule of compliance language: This revision updates the schedule of compliance language at 10 CSR 20-7.031(11) to be consistent with the language approved by EPA on January 25, 2013. The revision removes the phrase "with all deliberate speed and" from the above referenced subparagraph.

Addition of variance authorizing provisions: This provision would provide the basis for recommending variances to WQS when standards are not achievable through traditional regulatory approaches. The addition can be found at 10 CSR 20-7.031(12).

Updating Water Quality Standards Reference Documents and Language: References to water quality standards documents have been added or updated and clarifying water quality standards language has been added to ensure standards are implemented accurately.

Revised definition for sulfate and chloride: This revision will provide methods for determining default sulfate and chloride concentrations for use in calculations of numeric water quality criteria for these pollutants. These methods were inadvertently omitted from the previous rulemaking that revised numeric water quality criteria for sulfate and chloride. The revision can be found at 10 CSR 20-7.031(5)(L).

Correction of Typographical Errors and References: These changes correct several typographical errors discovered after the effective date of the last revisions to the WQS in 2012 and update references to new or modified definitions and rule language.

II. SUMMARY OF FISCAL IMPACT

This proposed amendment will cost private entities up to \$989,971,392 in the aggregate for the construction of wastewater treatment system upgrades. In addition, private entities will pay up to \$110,949,801 in the aggregate annually for system operation, maintenance and reporting. It is anticipated that the operation, maintenance and reporting costs will recur over the life of the rule and will vary with inflation. The majority of costs to private entities are from implementation of federal Clean Water Act Section 101(a) presumed "fishable/swimmable" uses for currently unclassified waters; all other revisions are not anticipated to cost private entities.

Disinfection Requirements: Clean Water Act Section 101(a) Use Designations and Changes to the Designation of Whole Body Contact Recreation and Secondary Contact Recreation as a Result of Use Attainability Analyses

<i>Estimate of the number of entities by class which would likely be affected by the adoption of the proposed rule.</i>	<i>Classification by types of the business entities which would likely be affected.</i>	<i>Estimate in the aggregate as to the cost of compliance with the rule by the affected entities.</i>
411 facilities may be required to install a disinfection system to comply with the bacteria standard applicable to waters with recreational uses.	Privately owned facilities operating domestic wastewater treatment facilities (WWTFs) under a state discharge permit. Examples include: municipal and government-owned facilities with wastewater treatment.	Construction Cost = \$256,732,111 Operation and Maintenance (O&M) Cost = \$25,392,840 - see further breakdown of costs in worksheets below -
393 facilities	Private facilities that do not presently disinfect wastewater discharges with design flows of less than or equal to 0.05 million gallons per day (mgd)	Construction Cost = \$236,831,107 O&M Cost = \$24,205,366
18 facilities	Private facilities that do not presently disinfect wastewater discharges with design flows of greater than 0.05 mgd but less than or equal to 1.0 mgd	Construction Cost = \$19,901,004 O&M Cost = \$1,187,474
0	Private facilities that do not presently disinfect wastewater discharges with design flows of greater than 1.0 mgd but less than or equal to 20.0 mgd	\$0
0	Private facilities that do not presently disinfect wastewater discharges with design flows of greater than 20.0 mgd	\$0

Ammonia Treatment Requirements: Clean Water Act Section 101(a) Use Designations

<i>Estimate of the number of entities by class which would likely be affected by the adoption of the proposed rule.</i>	<i>Classification by types of the business entities which would likely be affected.</i>	<i>Estimate in the aggregate as to the cost of compliance with the rule by the affected entities.</i>
1200 facilities may be required to upgrade treatment systems to comply with the ammonia standards applicable to waters with aquatic life protection.	Privately owned facilities operating domestic wastewater treatment facilities (WWTFs) under a state discharge permit. Examples include: municipal and government-owned facilities with wastewater treatment.	Construction Cost = \$740,412,834 Operation and Maintenance (O&M) Cost = \$86,356,885 - see further breakdown of costs in worksheets below -
1148 facilities	Private facilities that do not presently treat ammonia in wastewater with design flows of less than or equal to 0.05 million gallons per day (mgd)	Construction Cost = \$636,416,109 O&M Cost = \$79,236,505
51 facilities	Private facilities that do not presently treat ammonia in wastewater with design flows of greater than 0.05 mgd but less than or equal to 1.0 mgd	Construction Cost = \$86,202,847 O&M Cost = \$6,454,773
1 facilities	Private facilities that do not presently treat ammonia in wastewater with design flows of greater than 1.0 mgd but less than or equal to 20.0 mgd	Construction Cost = \$17,793,878 O&M Cost = \$665,607
0	Private facilities that do not presently treat ammonia in wastewater with design flows of greater than 20.0 mgd	\$0

III. WORKSHEET

Cost estimates for disinfection were derived using the department's affordability estimation procedure for upgrading wastewater treatment systems. The software uses flow-based cost interpolation for design of chlorine and ultraviolet disinfection systems based upon EPA's Computer Assisted Procedure for the Design and Evaluation of Wastewater Treatment Systems (CAPDET). The low and high cost estimates for private facilities to comply with disinfection requirements under the proposed rule can be found in Table 1 below.

Table 1. Private Facility Costs for Disinfection by Design Flow (DF)

	Capital Cost		Annual O&M			
Design Flow (DF) in MGD	Low	High	Low	High	Total Low	Total High
$DF \leq 0.05$	\$51,876,000	\$236,831,107	\$1,606,977	\$24,205,366	\$53,482,977	\$261,036,474
$0.05 < DF \leq 1$	\$2,690,915	\$19,901,004	\$92,881	\$1,187,474	\$2,783,795	\$21,088,478
$1 < DF \leq 20$	\$0	\$0	\$0	\$0	\$0	\$0
$DF > 20$	\$0	\$0	\$0	\$0	\$0	\$0
	\$54,566,915	\$256,732,111	\$1,699,858	\$25,392,840	\$56,266,772	\$282,124,952

Cost estimates for ammonia removal were derived using the department's affordability estimation procedure for upgrading wastewater treatment systems. The software uses flow-based cost interpolation for design of wastewater treatment systems based upon EPA's Computer Assisted Procedure for the Design and Evaluation of Wastewater Treatment Systems (CAPDET). The low and high cost estimates for capital construction costs consider four wastewater treatment technologies: 1) lagoon facility with additional aeration, 2) sequencing batch reactor (SBR) facility, 3) extended aeration facility, and 4) oxidation ditch. The low and high cost estimates for private facilities to comply with ammonia treatment requirements under the current and proposed rule can be found in Table 2 below.

Table 2. Private Facility Cost for Ammonia Treatment by Design Flow (DF)

	Capital Cost	Capital Cost	Annual O&M	Annual O&M		
Design Flow (DF) in MGD	Low	High	Low	High	Total Low	Total High
DF ≤ 0.05	\$295,996,051	\$636,416,109	\$24,422,134	\$79,236,505	\$320,418,185	\$715,652,614
0.05 < DF ≤ 1	\$32,934,184	\$86,202,847	\$4,508,246	\$6,454,773	\$37,442,430	\$92,657,619
1 < DF ≤ 20	\$12,128,638	\$17,793,878	\$425,927	\$665,607	\$12,554,565	\$18,459,485
DF > 20	\$0	\$0	\$0	\$0	\$0	\$0
	\$341,058,873	\$740,412,833	\$29,356,307	\$86,356,885	\$370,415,180	\$826,769,718

IV. ASSUMPTIONS

The costs assume that upgrades will be accomplished over a multi-year period, depending on the complexity and type of installation. Installation of disinfection equipment may only require a year to complete, but more complex installations of disinfection or ammonia removal may take longer. Because most facilities will be allowed a schedule of compliance consistent with federal regulation, the estimated cost will likely be incurred over a multi-year period.

Assumptions from CAPDET are administrative labor costs of \$25/hr; laboratory labor costs of \$20/hr; all land necessary for upgrades is available (\$0/acre); capital costs are project costs as calculated by CAPDET and annual operation and maintenance costs include operation, maintenance, material, chemical and energy costs from CAPDET. Interest rate is calculated as interest rate divided by 100 and is the current rate for bonds on the market.

Disinfection

Chlorine

Capital Cost

IF FLOW < 0.25 MGD: Cost = $-8,316,555(\text{FLOW})^2 + 6,399,838(\text{FLOW}) + 548,253$

IF FLOW ≥ 0.25 MGD: Cost = $-59,066(\text{FLOW})^2 + 1954508(\text{FLOW}) + 1420009$

Annual O&M Cost = $-1237.1(\text{FLOW})^2 + 40764(\text{FLOW}) + 61510$

UV

Capital Cost

IF Flow < 0.1 MGD: Cost = 132,000

If Flow ≥ 0.1 MGD: Cost = $-38762.02(\text{FLOW})^2 + 1357622.85(\text{FLOW}) - 121232.45$

Annual O&M Cost

IF Flow < 0.1 MGD: Cost = 4,089

IF Flow ≥ 0.1 MGD: Cost = 36430.74(FLOW) - 212.49

Due to the limitations of CAPDET, for ultraviolet disinfection costs are assumed identical for flow up to 100,000 gpd.

Ammonia Treatment

Treatment technologies used to determine ammonia treatment costs are as follows: 1) lagoon facility with additional aeration, 2) sequencing batch reactor (SBR) facility, 3) extended aeration facility, and 4) oxidation ditch. For treatment technologies 1 – 4, sludge handling, sludge treatment, and disinfection is not included in the project, annual, or present worth costs. Structural age of 20 years was used. Cost estimates were derived using a flow-based cost interpolator where costs are based on best fit trendlines for cost data, and are not a direct interpolation. The equations used for the cost estimates are given below.

Treatment 1 – Lagoon Facility with additional aeration

For treatment technology 1, it is assumed the lagoon is already in place and that aeration equipment is being added. Excavation costs were reduced from the design.

Capital Cost = $-3530223 \cdot \text{FLOW}^2 + 2813817 \cdot \text{FLOW} + 370020$

Annual O&M Cost = $\text{EXP}(1.195 \cdot \text{FLOW} + 11.34)$

Treatment 2 – Sequencing Batch Reactor (SBR) facility

For treatment technology 2, effluent limits are capable of being set, so design parameters were to meet a BOD of less than 10 mg/L and a TSS of less than 15 mg/L. Flow equalization is necessary with an SBR to meet disinfection requirements without oversizing the structure.

Capital Cost:IF Flow < 2 MGD: Cost = $\text{EXP}(0.6019 \cdot \text{LN}(\text{FLOW}) + 15.797)$ IF Flow ≥ 2 MGD: Cost = $2961224(\text{FLOW}) + 5653061$ **Annual O&M Cost:**IF Flow < 2 MGD: Cost = $337741(\text{FLOW})^{0.411}$ IF Flow ≥ 2 MGD: Cost = $297048(\text{FLOW})^{0.57}$ **Treatment 3 – Extended Aeration facility**

For treatment technology 3, solids retention time (SRT) was set at 28 days. Effluent limits can not be set in CAPDET for extended aeration; however the treatment technology can meet the ammonia limits of 1 mg/L.

Capital Cost:IF Flow < 0.1 MGD: Cost = $\text{EXP}(0.3319 \cdot \text{LN}(\text{FLOW}) + 14.869)$ IF $0.1 \leq \text{FLOW} < 2$: Cost = $\text{EXP}(0.6334 \cdot \text{LN}(\text{FLOW}) + 15.711)$ IF Flow ≥ 2 MGD: Cost = $4048979.5918 \cdot \text{FLOW} + 3622448.9796$

Annual O&M Cost = $845 \cdot (\text{FLOW})^3 - 16283 \cdot (\text{FLOW})^2 + 209507(\text{FLOW}) + 95575$

Treatment 4 – Oxidation Ditch

For treatment technology 4, the mixed liquor concentration was changed to be in the range identified by Metcalf and Eddy. Effluent from the oxidation ditch can meet the BOD of less than 10 mg/L and ammonia less than 1 mg/L.

Capital Cost:

IF Flow < 0.04 MGD: Cost = $3336385(\text{FLOW})^{0.4378}$

IF $0.04 \leq \text{FLOW} < 0.1$: Cost = $3878431(\text{FLOW})^{0.4758}$

IF Flow ≥ 0.1 MGD: Cost = $\text{EXP}(0.6171 * \text{LN}(\text{FLOW}) + 15.538)$

Annual O&M Cost:

IF Flow < 2 MGD: Cost = $\text{EXP}(12.455(\text{FLOW})^{0.0345})$

IF Flow ≥ 2 MGD: Cost = $82988(\text{FLOW}) + 135469$

This section will contain the final text of the rules proposed by agencies. The order of rulemaking is required to contain a citation to the legal authority upon which the order or rulemaking is based; reference to the date and page or pages where the notice of proposed rulemaking was published in the *Missouri Register*; an explanation of any change between the text of the rule as contained in the notice of proposed rulemaking and the text of the rule as finally adopted, together with the reason for any such change; and the full text of any section or subsection of the rule as adopted which has been changed from that contained in the notice of proposed rulemaking. The effective date of the rule shall be not less than thirty (30) days after the date of publication of the revision to the *Code of State Regulations*.

The agency is also required to make a brief summary of the general nature and extent of comments submitted in support of or opposition to the proposed rule and a concise summary of the testimony presented at the hearing, if any, held in connection with the rulemaking, together with a concise summary of the agency's findings with respect to the merits of any such testimony or comments which are opposed in whole or in part to the proposed rule. The ninety-(90-) day period during which an agency shall file its order of rulemaking for publication in the *Missouri Register* begins either: 1) after the hearing on the proposed rulemaking is held; or 2) at the end of the time for submission of comments to the agency. During this period, the agency shall file with the secretary of state the order of rulemaking, either putting the proposed rule into effect, with or without further changes, or withdrawing the proposed rule.

**Title 12—DEPARTMENT OF REVENUE
Division 30—State Tax Commission
Chapter 3—Local Assessment of Property and Appeals
From Local Boards of Equalization**

ORDER OF RULEMAKING

By the authority vested in the State Tax Commission under section 138.430, RSMo Supp. 2012, the commission amends a rule as follows:

12 CSR 30-3.065 Appraisal Evidence is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on March 1, 2013 (38 MoReg 429). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 15—ELECTED OFFICIALS
Division 50—Treasurer
Chapter 4—Missouri Higher Education Savings Program**

ORDER OF RULEMAKING

By the authority vested in the State Treasurer for the Missouri Higher Education Savings Program Board under section 166.415, RSMo Supp. 2012, the Missouri Higher Education Savings Program Board amends a rule as follows:

**15 CSR 50-4.030 Missouri MOST 529 Matching Grant Program
is amended.**

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on March 1, 2013 (38 MoReg 429). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 16—RETIREMENT SYSTEMS
Division 10—The Public School Retirement System of
Missouri
Chapter 5—Retirement, Options and Benefits**

ORDER OF RULEMAKING

By the authority vested in the board of trustees under section 169.020, RSMo Supp. 2012, the board of trustees hereby amends a rule of the Public School Retirement System of Missouri as follows:

16 CSR 10-5.020 Disability Retirement is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on March 15, 2013 (38 MoReg 469). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 16—RETIREMENT SYSTEMS
Division 10—The Public School Retirement System of
Missouri
Chapter 5—Retirement, Options and Benefits**

ORDER OF RULEMAKING

By the authority vested in the board of trustees under section 169.020, RSMo Supp. 2012, the board of trustees hereby amends a rule of the Public School Retirement System of Missouri as follows:

16 CSR 10-5.030 Beneficiary is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on March 15, 2013 (38 MoReg 470). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**Title 16—RETIREMENT SYSTEMS
Division 10—The Public School Retirement System of
Missouri
Chapter 6—The Public Education Employee Retirement
System of Missouri**

ORDER OF RULEMAKING

By the authority vested in the board of trustees under section 169.610, RSMo Supp. 2012, the board of trustees hereby amends a rule of the Public School Retirement System of Missouri as follows:

16 CSR 10-6.070 Disability Retirement is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on March 15, 2013 (38 MoReg 470-471). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

Title 16—RETIREMENT SYSTEMS
Division 10—The Public School Retirement System of
Missouri
Chapter 6—The Public Education Employee Retirement
System of Missouri

ORDER OF RULEMAKING

By the authority vested in the board of trustees under section 169.610, RSMo Supp. 2012, the board of trustees hereby amends a rule of the Public School Retirement System of Missouri as follows:

16 CSR 10-6.090 Beneficiary is amended.

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on March 15, 2013 (38 MoReg 471). No changes have been made in the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

This section may contain notice of hearings, correction notices, public information notices, rule action notices, statements of actual costs, and other items required to be published in the *Missouri Register* by law.

**Title 7—DEPARTMENT OF TRANSPORTATION
Division 10—Missouri Highways and
Transportation Commission
Chapter 25—Motor Carrier Operations**

IN ADDITION

7 CSR 10-25.010 Skill Performance Evaluation Certificates for Commercial Drivers

PUBLIC NOTICE

Public Notice and Request for Comments on Applications for Issuance of Skill Performance Evaluation Certificates to Intrastate Commercial Drivers with Diabetes Mellitus or Impaired Vision

SUMMARY: This notice publishes MoDOT's receipt of applications for the issuance of Skill Performance Evaluation (SPE) Certificates from individuals who do not meet the physical qualification requirements in the Federal Motor Carrier Safety Regulations for drivers of commercial motor vehicles in Missouri intrastate commerce because of impaired vision or an established medical history or clinical diagnosis of diabetes mellitus currently requiring insulin for control. If granted, the SPE Certificates will authorize these individuals to qualify as drivers of commercial motor vehicles (CMVs), in intrastate commerce only, without meeting the vision standard prescribed in 49 CFR 391.41(b)(10), if applicable, or the diabetes standard prescribed in 49 CFR 391.41(b)(3).

DATES: Comments must be received at the address stated below, on or before July 17, 2013.

ADDRESSES: You may submit comments concerning an applicant, identified by the Application Number stated below, by any of the following methods:

- *Email:* jeffrey.payne@modot.mo.gov
- *Mail:* PO Box 893, Jefferson City, MO 65102-0893
- *Hand Delivery:* 1320 Creek Trail Drive, Jefferson City, MO 65109
- *Instructions:* All comments submitted must include the agency name and Application Number for this public notice. For detailed instructions on submitting comments, see the Public Participation heading of the Supplementary Information section of this notice. All comments received will be open and available for public inspection and MoDOT may publish those comments by any available means.

**COMMENTS RECEIVED
BECOME MoDOT PUBLIC RECORD**

- By submitting any comments to MoDOT, the person authorizes MoDOT to publish those comments by any available means.
- *Docket:* For access to the department's file, to read background documents or comments received, 1320 Creek Trail Drive, Jefferson City, MO 65109, between 7:30 a.m. and 4:00 p.m., CT, Monday through Friday, except state holidays.

FOR FURTHER INFORMATION CONTACT: Mr. Jeff Payne, Motor Carrier Specialist, (573) 751-7114, MoDOT Motor Carrier Services Division, PO Box 893, Jefferson City, MO 65102-0893. Office hours are from 7:30 a.m. to 4:00 p.m., CT, Monday through Friday, except state holidays.

SUPPLEMENTARY INFORMATION:

Public Participation

If you want us to notify you that we received your comments, please include a self-addressed, stamped envelope or postcard.

Background

The individuals listed in this notice have recently filed applications requesting MoDOT to issue SPE Certificates to exempt them from the physical qualification requirements relating to vision in 49 CFR 391.41(b)(10), or to diabetes in 49 CFR 391.41(b)(3), which otherwise apply to drivers of CMVs in Missouri intrastate commerce.

Under section 622.555, RSMo Supp. 2012, MoDOT may issue a SPE Certificate, for not more than a two- (2-) year period, if it finds that the applicant has the ability, while operating CMVs, to maintain a level of safety that is equivalent to or greater than the driver qualification standards of 49 CFR 391.41. Upon application, MoDOT may renew an exemption upon expiration.

Accordingly, the agency will evaluate the qualifications of each applicant to determine whether issuing a SPE Certificate will comply with the statutory requirements and will achieve the required level of safety. If granted, the SPE Certificate is only applicable to intrastate transportation wholly within Missouri.

Qualifications of Applicants

Application #100

Renewal Applicant's Name & Age: Steven Bradley Tornow, 30

Relevant Physical Condition: Insulin-treated diabetes mellitus (IDTM). Mr. Tornow has corrected visual acuity of 20/20 Snellen in both eyes. He has been a Type 1 IDTM since October 2005, with no glycemic reaction within the past five (5) years.

Relevant Driving Experience: Mr. Tornow has been driving a CMV with his Class A CDL since 2012, and has experience driving personal vehicle(s) daily.

Doctor's Opinion & Date: Following an examination in February 2013, a board-certified endocrinologist certified his condition would not adversely affect his ability to operate a commercial vehicle safely.

Traffic Accidents and Violations: No recorded accidents or violations within the previous three (3) years.

Application #104

Renewal Applicant's Name & Age: Andrew M. Hahn, 34

Relevant Physical Condition: Vision Impairment. Mr. Hahn is blind in his right eye, with a prosthetic eye. He has uncorrected visual acuity of 20/20 in his left eye. Mr. Hahn's right eye was enucleated after an injury and subsequent infection in 1988.

Relevant Driving Experience: Mr. Hahn has a Class A CDL, and is currently self-employed as an insurance agent, who previously worked as a driver for an Ag Co-Op driving approximately twenty (20) hours per week. In addition, he drives personal vehicle(s) daily.

Doctor's Opinion & Date: Following an examination in March 2013, a board-certified optometrist certified his condition would not adversely affect his ability to operate a commercial vehicle safely.

Traffic Accidents and Violations: No recorded accidents or violations within the previous three (3) years.

Application #114

Renewal Applicant's Name & Age: Thomas Edward Bauer, 59

Relevant Physical Condition: Insulin-treated diabetes mellitus (IDTM). Mr. Bauer has uncorrected visual acuity of 20/20 Snellen in his left eye and uncorrected 20/25 in his right eye. He has been a Type 1 IDTM since 1978, with no glycemic reaction within the past five (5) years.

Relevant Driving Experience: Mr. Bauer has been driving a CMV with his Class A CDL since 2011, and has experience driving personal vehicle(s) daily.

Doctor's Opinion & Date: Following an examination in February 2013, a board-certified endocrinologist certified his condition would not adversely affect his ability to operate a commercial vehicle safely.

Traffic Accidents and Violations: No recorded accidents or violations within the previous three (3) years.

Application #116

New Applicant's Name & Age: Thomas W. May, 53

Relevant Physical Condition: Vision Impairment. Mr. May has corrected visual acuity of 20/70 Snellen in his right eye and corrected visual acuity of 20/20 in his left eye. The visual impairment is a result of amblyopia since childhood and has been present since childbirth.

Relevant Driving Experience: Mr. May has a Class B, passenger endorsement, and has been driving a school bus for the past seven (7) years. In addition, he has over thirty-seven (37) years of experience driving personal vehicle(s) daily.

Doctor's Opinion & Date: Following an examination in October 2012, a board-certified doctor certified his condition would not adversely affect his ability to operate a commercial vehicle safely.

Traffic Accidents and Violations: No recorded accidents or violations within the previous three (3) years.

Request for Comments

The Missouri Department of Transportation, Motor Carrier Services Division, pursuant to section 622.555, RSMo, and rule 7 CSR 10-25.010, requests public comment from all interested persons on the applications for issuance of Skill Performance Evaluation Certificates described in this notice. We will consider all comments received before the close of business on the closing date indicated earlier in this notice.

Issued on: May 14, 2013


Jan Skouby, Motor Carrier Services Director, Missouri Department of Transportation.

**ADDITION TO STATUTORY LIST OF CONTRACTORS
BARRED FROM PUBLIC WORKS PROJECTS**

The following is an addition to the list of contractor(s) who have been prosecuted and convicted of violating the Missouri Prevailing Wage Law, and whose Notice of Conviction has been filed with the Secretary of State pursuant to Section 290.330, RSMo. Under this statute, no public body is permitted to award a contract, directly or indirectly, for public works (1) to David E. Mollohan, (2) to any other contractor or subcontractor that is owned, operated or controlled by Mr. David E Mollohan including M & D Excavating or (3) to any other simulation of Mr. David E Mollohan or of M & D Excavating for a period of one year, or until January 10, 2014.

<u>Name of Contractor</u>	<u>Name of Officers</u>	<u>Address</u>	<u>Date of Conviction</u>	<u>Debarment Period</u>
David E. Mollohan d/b/a M & D Excavating Case No. 11WR-CR00453 Wright County Cir. Ct.		1448 Kaylor Road Mountain Grove, MO 65711	1/10/2013	1/10/2013-1/10/2014

Dated this 28th day of January, 2013.


Robert A. Bedell, Acting Division Director

The Secretary of State is required by sections 347.141 and 359.481, RSMo 2000, to publish dissolutions of limited liability companies and limited partnerships. The content requirements for the one-time publishing of these notices are prescribed by statute. This listing is published pursuant to these statutes. We request that documents submitted for publication in this section be submitted in camera ready 8 1/2" x 11" manuscript by email to dissolutions@sos.mo.gov.

**NOTICE OF WINDING UP OF LIMITED LIABILITY COMPANY
TO ALL CREDITORS OF AND CLAIMANTS AGAINST
APEX LAB SERVICES, L.L.C.**

On May 6, 2013, Apex Lab Services, L.L.C., a Missouri limited liability company ("Company"), filed its Notice of Winding Up with the Missouri Secretary of State, effective on the filing date.

All persons and organizations must submit to Company, c/o Frank C. Carnahan, Carnahan, Evans, Cantwell & Brown, P.C., 2805 S. Ingram Mill, Springfield, Missouri 65804, a written summary of any claims against Company, including: 1) claimant's name, address and telephone number; 2) amount of claim; 3) date(s) claim accrued (or will accrue); 4) brief description of the nature of the debt or the basis for the claim; and 5) if the claim is secured, and if so, the collateral used as security.

Because of the dissolution, any claims against Company will be barred unless a proceeding to enforce the claim is commenced within three (3) years after the last of filing or publication of this Notice.

**NOTICE OF DISSOLUTION
DISASTER RECONSTRUCTION SERVICES, LLC**

On April 18, 2013, Disaster Reconstruction Services, LLC, a Missouri limited liability company, filed its Notice of Winding Up with the Missouri Secretary of State.

All claims against Disaster Reconstruction Services, LLC, must be submitted in writing to Frederick W. Shultz, 8000 Bonhomme Ave., Suite 207, Clayton, Missouri 63105. All claims must include the name, address and telephone number of the claimant; the amount of the claim; the date on which the event on which the claim is based occurred; and a brief description of the nature of the debt or the basis for the claim.

All claims against Disaster Reconstruction Services, LLC, will be barred unless a proceeding to enforce the claim is commenced within three (3) years after publication of this notice.

NOTICE OF DISSOLUTION
OF
LIMITED LIABILITY COMPANY

NOTICE OF DISSOLUTION TO ALL CREDITORS AND CLAIMANTS:

1. The name of the dissolved limited liability company is TAXCREDITCLEARINGHOUSE.COM, LLC, Charter #LC0679217.

2. The articles of organization for the limited liability company were filed on August 17, 2005. TAXCREDITCLEARINGHOUSE.COM, LLC has been dissolved effective April 15, 2013.

3. Persons with claims against the limited liability company should present them in accordance with the following procedure:

A. In order to file a claim with the limited liability company, you must furnish the following: Amount of the claim, Basis for the claim, Documentation of the claim.

B. Claims must be mailed to: Carolyn M. Ohlsen, c/o Lowenhaupt & Chasnoff, LLC, 10 S. Broadway, Suite 550, St. Louis, MO 63102.

4. NOTICE: A claim against the limited liability company will be barred unless a proceeding to enforce the claim is commenced within three years after the publication of the notice.

In Affirmation thereof, the facts stated above are true and correct:

(The undersigned understands that false statements made in this filing are subject to the penalties provided under Section 575.040, RSMo)

NOTICE OF DISSOLUTION
OF
LIMITED LIABILITY COMPANY

NOTICE OF DISSOLUTION TO ALL CREDITORS AND CLAIMANTS:

1. The name of the dissolved limited liability company is WC Investment Management, LLC, Charter #LC0659559.

2. The articles of organization for the limited liability company were filed on May 12, 2005. WC Investment Management, LLC, has been dissolved effective April 15, 2013.

3. Persons with claims against the limited liability company should present them in accordance with the following procedure:

A. In order to file a claim with the limited liability company, you must furnish the following: Amount of the claim, Basis for the claim, Documentation of the claim.

B. Claims must be mailed to: Carolyn M. Ohlsen, c/o Lowenhaupt & Chasnoff, LLC, 10 S. Broadway, Suite 550, St. Louis, MO 63102.

4. NOTICE: A claim against the limited liability company will be barred unless a proceeding to enforce the claim is commenced within three years after the publication of the notice.

In Affirmation thereof, the facts stated above are true and correct:

(The undersigned understands that false statements made in this filing are subject to the penalties provided under Section 575.040, RSMo)

NOTICE OF DISSOLUTION
OF
LIMITED LIABILITY COMPANY

NOTICE OF DISSOLUTION TO ALL CREDITORS AND CLAIMANTS:

1. The name of the dissolved limited liability company is Wind Development II, LLC, Charter #LC0747299.
2. The articles of organization for the limited liability company were filed on June 23, 2006. Wind Development II, LLC, has been dissolved effective April 15, 2013.
3. Persons with claims against the limited liability company should present them in accordance with the following procedure:
 - A. In order to file a claim with the limited liability company, you must furnish the following: Amount of the claim, Basis for the claim, Documentation of the claim.
 - B. Claims must be mailed to: Carolyn M. Ohlsen, c/o Lowenhaupt & Chasnoff, LLC, 10 S. Broadway, Suite 550, St. Louis, MO 63102.
4. NOTICE: A claim against the limited liability company will be barred unless a proceeding to enforce the claim is commenced within three years after the publication of the notice.

In Affirmation thereof, the facts stated above are true and correct:

(The undersigned understands that false statements made in this filing are subject to the penalties provided under Section 575.040, RSMo)

NOTICE OF DISSOLUTION
OF
LIMITED LIABILITY COMPANY

NOTICE OF DISSOLUTION TO ALL CREDITORS AND CLAIMANTS:

1. The name of the dissolved limited liability company is Wind Development III, LLC, Charter #LC0747305.
2. The articles of organization for the limited liability company were filed on June 23, 2006. Wind Development III, LLC, has been dissolved effective April 15, 2013.
3. Persons with claims against the limited liability company should present them in accordance with the following procedure:
 - A. In order to file a claim with the limited liability company, you must furnish the following: Amount of the claim, Basis for the claim, Documentation of the claim.
 - B. Claims must be mailed to: Carolyn M. Ohlsen, c/o Lowenhaupt & Chasnoff, LLC, 10 S. Broadway, Suite 550, St. Louis, MO 63102.
4. NOTICE: A claim against the limited liability company will be barred unless a proceeding to enforce the claim is commenced within three years after the publication of the notice.

In Affirmation thereof, the facts stated above are true and correct:

(The undersigned understands that false statements made in this filing are subject to the penalties provided under Section 575.040, RSMo)

Rule Changes Since Update to Code of State Regulations

This cumulative table gives you the latest status of rules. It contains citations of rulemakings adopted or proposed after deadline for the monthly Update Service to the *Code of State Regulations*, citations are to volume and page number in the *Missouri Register*, except for material in this issue. The first number in the table cite refers to the volume number or the publication year—37 (2012) and 38 (2013). MoReg refers to *Missouri Register* and the numbers refer to a specific *Register* page, R indicates a rescission, W indicates a withdrawal, S indicates a statement of actual cost, T indicates an order terminating a rule, N.A. indicates not applicable, RAN indicates a rule action notice, RUC indicates a rule under consideration, and F indicates future effective date.

Rule Number	Agency	Emergency	Proposed	Order	In Addition
OFFICE OF ADMINISTRATION					
1 CSR 10	State Officials' Salary Compensation Schedule				37 MoReg 1859
1 CSR 10-15.010	Commissioner of Administration	38 MoReg 5	38 MoReg 7	38 MoReg 657	
DEPARTMENT OF AGRICULTURE					
2 CSR 30-10.010	Animal Health	38 MoReg 5	38 MoReg 82	38 MoReg 839	
2 CSR 90-10	Weights and Measures				37 MoReg 1197
DEPARTMENT OF CONSERVATION					
3 CSR 10-7.455	Conservation Commission				38 MoReg 212
3 CSR 10-10.705	Conservation Commission		38 MoReg 581		
3 CSR 10-10.722	Conservation Commission		38 MoReg 581		
3 CSR 10-10.725	Conservation Commission		38 MoReg 582		
3 CSR 10-12.109	Conservation Commission		38 MoReg 585		
3 CSR 10-12.110	Conservation Commission		38 MoReg 585		
3 CSR 10-12.135	Conservation Commission		38 MoReg 585		
3 CSR 10-20.805	Conservation Commission		38 MoReg 586		
DEPARTMENT OF ECONOMIC DEVELOPMENT					
4 CSR 195-6.010	Division of Workforce Development		38 MoReg 171	38 MoReg 768	
4 CSR 195-6.020	Division of Workforce Development		38 MoReg 171	38 MoReg 768	
4 CSR 195-6.030	Division of Workforce Development		38 MoReg 172	38 MoReg 768	
4 CSR 195-6.040	Division of Workforce Development		38 MoReg 173	38 MoReg 768	
4 CSR 195-6.050	Division of Workforce Development		38 MoReg 173	38 MoReg 769	
4 CSR 265-2.068	Division of Motor Carrier and Railroad Safety (Changed to 7 CSR 265-10.035)		This Issue		
4 CSR 265-2.180	Division of Motor Carrier and Railroad Safety (Changed to 7 CSR 265-10.140)		This Issue		
4 CSR 265-2.190	Division of Motor Carrier and Railroad Safety (Changed to 7 CSR 265-10.090)		This Issue		
4 CSR 265-6.010	Division of Motor Carrier and Railroad Safety (Changed to 7 CSR 265-10.055)		This Issue		
4 CSR 265-12.020	Division of Motor Carrier and Railroad Safety		This IssueR		
4 CSR 265-12.030	Division of Motor Carrier and Railroad Safety		This IssueR		
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION					
5 CSR 20-100.255	Division of Learning Services		37 MoReg 1571	38 MoReg 520F	
5 CSR 20-100.260	Division of Learning Services		38 MoReg 99	38 MoReg 769	
5 CSR 20-400.125	Division of Learning Services		38 MoReg 507		
5 CSR 20-400.270	Division of Learning Services		38 MoReg 105	38 MoReg 775	
5 CSR 20-400.375	Division of Learning Services		38 MoReg 825		
5 CSR 20-600.110	Division of Learning Services		38 MoReg 508		
DEPARTMENT OF HIGHER EDUCATION					
6 CSR 10-2.190	Commissioner of Higher Education		38 MoReg 174	38 MoReg 697	
6 CSR 10-3.010	Commissioner of Higher Education		38 MoReg 755		
6 CSR 10-10.010	Commissioner of Higher Education		38 MoReg 755		
DEPARTMENT OF TRANSPORTATION					
7 CSR 10-7.020	Missouri Highways and Transportation Commission		38 MoReg 427		
7 CSR 10-7.030	Missouri Highways and Transportation Commission		38 MoReg 427		
7 CSR 10-25.010	Missouri Highways and Transportation Commission				This Issue
7 CSR 60-2.010	Traffic and Highway Safety Division		38 MoReg 586		
7 CSR 60-2.020	Traffic and Highway Safety Division		38 MoReg 588		
7 CSR 60-2.030	Traffic and Highway Safety Division		38 MoReg 589		
7 CSR 60-2.040	Traffic and Highway Safety Division		38 MoReg 590		
7 CSR 60-2.050	Traffic and Highway Safety Division		38 MoReg 592		
7 CSR 60-2.060	Traffic and Highway Safety Division		38 MoReg 592		
7 CSR 265-10.010	Motor Carrier and Railroad Safety		This Issue		
7 CSR 265-10.015	Motor Carrier and Railroad Safety		This IssueR		
			This Issue		
7 CSR 265-10.020	Motor Carrier and Railroad Safety		This IssueR		
			This Issue		
7 CSR 265-10.025	Motor Carrier and Railroad Safety		This IssueR		
			This Issue		

Rule Number	Agency	Emergency	Proposed	Order	In Addition
7 CSR 265-10.030	Motor Carrier and Railroad Safety		This IssueR This Issue		
7 CSR 265-10.035	Motor Carrier and Railroad Safety (Changed from 4 CSR 265-2.068)		This Issue		
7 CSR 265-10.040	Motor Carrier and Railroad Safety		This IssueR This Issue		
7 CSR 265-10.045	Motor Carrier and Railroad Safety		This Issue		
7 CSR 265-10.050	Motor Carrier and Railroad Safety		This Issue		
7 CSR 265-10.055	Motor Carrier and Railroad Safety (Changed from 4 CSR 265-6.010)		This Issue		
7 CSR 265-10.060	Motor Carrier and Railroad Safety		This IssueR		
7 CSR 265-10.070	Motor Carrier and Railroad Safety		This IssueR		
7 CSR 265-10.080	Motor Carrier and Railroad Safety		This IssueR		
7 CSR 265-10.090	Motor Carrier and Railroad Safety (Changed from 4 CSR 265-2.190)		This Issue		
7 CSR 265-10.100	Motor Carrier and Railroad Safety		This Issue		
7 CSR 265-10.110	Motor Carrier and Railroad Safety		This IssueR This Issue		
7 CSR 265-10.120	Motor Carrier and Railroad Safety		This IssueR		
7 CSR 265-10.130	Motor Carrier and Railroad Safety		This Issue		
7 CSR 265-10.140	Motor Carrier and Railroad Safety (Changed from 4 CSR 265-2.180)		This Issue		

DEPARTMENT OF NATURAL RESOURCES

10 CSR 10-1.010	Air Conservation Commission		37 MoReg 1646	38 MoReg 839	
10 CSR 10-2.330	Air Conservation Commission		37 MoReg 1769	38 MoReg 840	
10 CSR 10-5.570	Air Conservation Commission		38 MoReg 593		
10 CSR 10-6.040	Air Conservation Commission		38 MoReg 689		
10 CSR 10-6.060	Air Conservation Commission		38 MoReg 595		
10 CSR 10-6.070	Air Conservation Commission		This Issue		
10 CSR 10-6.075	Air Conservation Commission		This Issue		
10 CSR 10-6.080	Air Conservation Commission		This Issue		
10 CSR 10-6.110	Air Conservation Commission		38 MoReg 596		
10 CSR 10-6.130	Air Conservation Commission		This Issue		
10 CSR 10-6.345	Air Conservation Commission		38 MoReg 601R		
10 CSR 10-6.390	Air Conservation Commission		38 MoReg 601		
10 CSR 10-6.400	Air Conservation Commission		38 MoReg 603		
10 CSR 20-7.015	Clean Water Commission		This Issue		
10 CSR 20-7.031	Clean Water Commission		This Issue		
10 CSR 23-1.075	Division of Geology and Land Survey		38 MoReg 283		
10 CSR 40-3.040	Land Reclamation Commission		38 MoReg 177	38 MoReg 840	
10 CSR 40-3.060	Land Reclamation Commission		38 MoReg 178	38 MoReg 840	
10 CSR 40-3.170	Land Reclamation Commission		38 MoReg 178	38 MoReg 840	
10 CSR 40-3.180	Land Reclamation Commission		38 MoReg 178	38 MoReg 840	
10 CSR 40-3.200	Land Reclamation Commission		38 MoReg 179	38 MoReg 840	
10 CSR 40-3.210	Land Reclamation Commission		38 MoReg 181	38 MoReg 841	
10 CSR 40-3.220	Land Reclamation Commission		38 MoReg 181	38 MoReg 841	
10 CSR 40-3.230	Land Reclamation Commission		38 MoReg 182	38 MoReg 841	
10 CSR 40-3.240	Land Reclamation Commission		38 MoReg 182	38 MoReg 841	
10 CSR 40-3.260	Land Reclamation Commission		38 MoReg 182	38 MoReg 841	
10 CSR 40-3.300	Land Reclamation Commission		38 MoReg 183	38 MoReg 841	
10 CSR 40-6.020	Land Reclamation Commission		38 MoReg 183	38 MoReg 842	
10 CSR 40-6.030	Land Reclamation Commission		38 MoReg 184	38 MoReg 842	
10 CSR 40-6.040	Land Reclamation Commission		38 MoReg 184	38 MoReg 842	
10 CSR 40-6.050	Land Reclamation Commission		38 MoReg 185	38 MoReg 842	
10 CSR 40-6.060	Land Reclamation Commission		38 MoReg 185	38 MoReg 842	
10 CSR 40-6.070	Land Reclamation Commission		38 MoReg 186	38 MoReg 843	
10 CSR 40-6.100	Land Reclamation Commission		38 MoReg 187	38 MoReg 843	
10 CSR 40-6.110	Land Reclamation Commission		38 MoReg 187	38 MoReg 843	
10 CSR 40-6.120	Land Reclamation Commission		38 MoReg 188	38 MoReg 843	
10 CSR 40-7.050	Land Reclamation Commission		38 MoReg 189	38 MoReg 843	
10 CSR 40-8.010	Land Reclamation Commission		38 MoReg 190	38 MoReg 843	
10 CSR 40-8.020	Land Reclamation Commission		38 MoReg 195	38 MoReg 844	
10 CSR 40-8.070	Land Reclamation Commission		38 MoReg 195	38 MoReg 844	
10 CSR 140-2	Division of Energy				38 MoReg 432

DEPARTMENT OF PUBLIC SAFETY

11 CSR 30-14.010	Office of the Director	38 MoReg 243	38 MoReg 249		
11 CSR 45-4.260	Missouri Gaming Commission		38 MoReg 428		
11 CSR 45-8.010	Missouri Gaming Commission		38 MoReg 691		
11 CSR 45-8.060	Missouri Gaming Commission		38 MoReg 691		
11 CSR 45-8.090	Missouri Gaming Commission		38 MoReg 692		
11 CSR 45-8.100	Missouri Gaming Commission		38 MoReg 692		
11 CSR 45-8.150	Missouri Gaming Commission		38 MoReg 692		
11 CSR 45-9.106	Missouri Gaming Commission		37 MoReg 1770	38 MoReg 697	
			38 MoReg 828		
11 CSR 45-9.107	Missouri Gaming Commission		38 MoReg 693		
11 CSR 45-9.110	Missouri Gaming Commission		38 MoReg 828		
11 CSR 45-9.118	Missouri Gaming Commission		38 MoReg 828		
11 CSR 45-9.120	Missouri Gaming Commission		37 MoReg 1770	38 MoReg 698	

Rule Number	Agency	Emergency	Proposed	Order	In Addition
DEPARTMENT OF REVENUE					
12 CSR 10-41.010	Director of Revenue	37 MoReg 1701	37 MoReg 1770	38 MoReg 472	
12 CSR 10-41.025	Director of Revenue		38 MoReg 284	38 MoReg 847	
12 CSR 10-41.030	Director of Revenue		38 MoReg 285	38 MoReg 847	
12 CSR 10-104.030	Director of Revenue		38 MoReg 286	38 MoReg 847	
12 CSR 30-3.065	State Tax Commission		38 MoReg 429	This Issue	
DEPARTMENT OF SOCIAL SERVICES					
13 CSR 35-32.040	Children's Division		38 MoReg 829		
13 CSR 35-100.010	Children's Division		38 MoReg 510		
13 CSR 70-10.017	MO HealthNet Division		38 MoReg 693		
ELECTED OFFICIALS					
15 CSR 30-50.010	Secretary of State		38 MoReg 835		
15 CSR 30-50.040	Secretary of State		38 MoReg 835		
15 CSR 30-52.015	Secretary of State		38 MoReg 836		
15 CSR 30-52.030	Secretary of State		38 MoReg 836		
15 CSR 30-52.275	Secretary of State		38 MoReg 837		
15 CSR 30-54.010	Secretary of State		38 MoReg 837		
15 CSR 30-54.070	Secretary of State		38 MoReg 837		
15 CSR 30-54.150	Secretary of State		38 MoReg 838		
15 CSR 50-4.030	Treasurer	38 MoReg 425	38 MoReg 429	This Issue	
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16 CSR 10-5.020	The Public School Retirement System of Missouri		38 MoReg 469	This Issue	
16 CSR 10-5.030	The Public School Retirement System of Missouri		38 MoReg 470	This Issue	
16 CSR 10-6.070	The Public School Retirement System of Missouri		38 MoReg 470	This Issue	
16 CSR 10-6.090	The Public School Retirement System of Missouri		38 MoReg 471	This Issue	
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17 CSR 10-2.010	Kansas City Board of Police Commissioners		38 MoReg 604R 38 MoReg 604		
17 CSR 10-2.020	Kansas City Board of Police Commissioners		38 MoReg 611R 38 MoReg 611		
17 CSR 10-2.030	Kansas City Board of Police Commissioners		38 MoReg 615R 38 MoReg 615		
17 CSR 10-2.040	Kansas City Board of Police Commissioners		38 MoReg 616R 38 MoReg 616		
17 CSR 10-2.050	Kansas City Board of Police Commissioners		38 MoReg 623R 38 MoReg 623		
17 CSR 10-2.055	Kansas City Board of Police Commissioners		38 MoReg 629R 38 MoReg 629		
17 CSR 10-2.060	Kansas City Board of Police Commissioners		38 MoReg 631R 38 MoReg 631		
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19 CSR 20-1.025	Division of Community and Public Health		38 MoReg 635R 38 MoReg 635		
19 CSR 20-1.040	Division of Community and Public Health		38 MoReg 641R 38 MoReg 641		
19 CSR 20-1.042	Division of Community and Public Health		38 MoReg 641		
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19 CSR 20-1.200	Division of Community and Public Health		38 MoReg 642		
19 CSR 30-40.710	Division of Regulation and Licensure		37 MoReg 1889	38 MoReg 698	
19 CSR 30-40.720	Division of Regulation and Licensure		37 MoReg 1891	38 MoReg 700	
19 CSR 30-40.730	Division of Regulation and Licensure		37 MoReg 1907	38 MoReg 709	
19 CSR 30-40.740	Division of Regulation and Licensure		37 MoReg 2073	38 MoReg 713	
19 CSR 30-40.750	Division of Regulation and Licensure		37 MoReg 2075	38 MoReg 715	
19 CSR 30-40.760	Division of Regulation and Licensure		37 MoReg 2097	38 MoReg 718	
19 CSR 30-40.770	Division of Regulation and Licensure		37 MoReg 2284	38 MoReg 721	
19 CSR 30-40.780	Division of Regulation and Licensure		37 MoReg 2284	38 MoReg 722	
19 CSR 30-40.790	Division of Regulation and Licensure		37 MoReg 2285	38 MoReg 722	
19 CSR 30-82.070	Division of Regulation and Licensure		38 MoReg 643R		
19 CSR 60-50	Missouri Health Facilities Review Committee				38 MoReg 726 38 MoReg 780 38 MoReg 780 38 MoReg 780 38 MoReg 857
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20 CSR	Applied Behavior Analysis Maximum Benefit				37 MoReg 472 38 MoReg 432
20 CSR	Construction Claims Binding Arbitration Cap				37 MoReg 62 38 MoReg 147
20 CSR	Sovereign Immunity Limits				37 MoReg 62 38 MoReg 147
20 CSR	State Legal Expense Fund Cap				37 MoReg 62 38 MoReg 147
20 CSR 2015-1.030	Acupuncturist Advisory Committee	38 MoReg 751	38 MoReg 757		
20 CSR 2030-6.015	Missouri Board for Architects, Professional Engineers, Professional Land Surveyors, and Landscape Architects		38 MoReg 761		

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20 CSR 2085-11.020	Board of Cosmetology and Barber Examiners		38 MoReg 643		
20 CSR 2095-1.020	Committee for Professional Counselors	38 MoReg 751	38 MoReg 765		
20 CSR 2110-2.010	Missouri Dental Board		38 MoReg 647		
20 CSR 2110-2.050	Missouri Dental Board		38 MoReg 650		
20 CSR 2165-2.025	Board of Examiners for Hearing Instrument Specialists		38 MoReg 290	38 MoReg 847	
20 CSR 2165-2.030	Board of Examiners for Hearing Instrument Specialists		38 MoReg 293	38 MoReg 847	
20 CSR 2200-2.001	State Board of Nursing		38 MoReg 293	38 MoReg 848	
20 CSR 2200-2.010	State Board of Nursing		38 MoReg 294	38 MoReg 848	
20 CSR 2200-2.020	State Board of Nursing		38 MoReg 296	38 MoReg 848	
20 CSR 2200-2.030	State Board of Nursing		38 MoReg 296	38 MoReg 848	
20 CSR 2200-2.035	State Board of Nursing		38 MoReg 297	38 MoReg 849	
20 CSR 2200-2.040	State Board of Nursing		38 MoReg 297	38 MoReg 849	
20 CSR 2200-2.060	State Board of Nursing		38 MoReg 297	38 MoReg 849	
20 CSR 2200-2.070	State Board of Nursing		38 MoReg 300	38 MoReg 849	
20 CSR 2200-2.080	State Board of Nursing		38 MoReg 300	38 MoReg 850	
20 CSR 2200-2.085	State Board of Nursing		38 MoReg 300	38 MoReg 850	
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20 CSR 2200-2.100	State Board of Nursing		38 MoReg 301	38 MoReg 850	
20 CSR 2200-2.110	State Board of Nursing		38 MoReg 303	38 MoReg 851	
20 CSR 2200-2.120	State Board of Nursing		38 MoReg 303	38 MoReg 851	
20 CSR 2200-2.130	State Board of Nursing		38 MoReg 303	38 MoReg 851	
20 CSR 2200-2.180	State Board of Nursing		38 MoReg 304	38 MoReg 851	
20 CSR 2200-3.001	State Board of Nursing		38 MoReg 304	38 MoReg 852	
20 CSR 2200-3.010	State Board of Nursing		38 MoReg 305	38 MoReg 852	
20 CSR 2200-3.020	State Board of Nursing		38 MoReg 307	38 MoReg 852	
20 CSR 2200-3.030	State Board of Nursing		38 MoReg 307	38 MoReg 852	
20 CSR 2200-3.035	State Board of Nursing		38 MoReg 308	38 MoReg 853	
20 CSR 2200-3.040	State Board of Nursing		38 MoReg 308	38 MoReg 853	
20 CSR 2200-3.060	State Board of Nursing		38 MoReg 308	38 MoReg 853	
20 CSR 2200-3.070	State Board of Nursing		38 MoReg 311	38 MoReg 853	
20 CSR 2200-3.080	State Board of Nursing		38 MoReg 311	38 MoReg 854	
20 CSR 2200-3.085	State Board of Nursing		38 MoReg 311	38 MoReg 854	
20 CSR 2200-3.090	State Board of Nursing		38 MoReg 312	38 MoReg 854	
20 CSR 2200-3.100	State Board of Nursing		38 MoReg 312	38 MoReg 854	
20 CSR 2200-3.110	State Board of Nursing		38 MoReg 313	38 MoReg 855	
20 CSR 2200-3.120	State Board of Nursing		38 MoReg 314	38 MoReg 855	
20 CSR 2200-3.130	State Board of Nursing		38 MoReg 314	38 MoReg 855	
20 CSR 2200-3.180	State Board of Nursing		38 MoReg 315	38 MoReg 855	
20 CSR 2200-4.022	State Board of Nursing		38 MoReg 653		
20 CSR 2200-6.020	State Board of Nursing		38 MoReg 653		
20 CSR 2200-6.030	State Board of Nursing		38 MoReg 654		
20 CSR 2200-6.040	State Board of Nursing		38 MoReg 654		
20 CSR 2200-6.050	State Board of Nursing		38 MoReg 655		
20 CSR 2200-6.060	State Board of Nursing		38 MoReg 656		
20 CSR 2220-2.017	State Board of Pharmacy		38 MoReg 315		
20 CSR 2220-2.018	State Board of Pharmacy		38 MoReg 316		
20 CSR 2220-2.030	State Board of Pharmacy		38 MoReg 316R		
20 CSR 2220-2.032	State Board of Pharmacy		38 MoReg 317R		
20 CSR 2220-2.034	State Board of Pharmacy		38 MoReg 317R		
20 CSR 2220-2.036	State Board of Pharmacy		38 MoReg 317R		
20 CSR 2220-2.080	State Board of Pharmacy		38 MoReg 318		
20 CSR 2220-2.083	State Board of Pharmacy		38 MoReg 319		
20 CSR 2220-2.100	State Board of Pharmacy		38 MoReg 320R		
20 CSR 2220-2.450	State Board of Pharmacy		38 MoReg 320R		
20 CSR 2220-7.010	State Board of Pharmacy		38 MoReg 321		
20 CSR 2220-7.025	State Board of Pharmacy		38 MoReg 325		
20 CSR 2220-7.027	State Board of Pharmacy		38 MoReg 332		
20 CSR 2220-7.030	State Board of Pharmacy		38 MoReg 336		
20 CSR 2220-7.040	State Board of Pharmacy		38 MoReg 341		
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20 CSR 2245-1.010	Real Estate Appraisers		37 MoReg 2299	38 MoReg 775	
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20 CSR 2245-3.005	Real Estate Appraisers		37 MoReg 2300	38 MoReg 723	
20 CSR 2245-3.010	Real Estate Appraisers		37 MoReg 2304	38 MoReg 725	
20 CSR 2245-4.050	Real Estate Appraisers		37 MoReg 2305	38 MoReg 725	
20 CSR 2245-5.020	Real Estate Appraisers		37 MoReg 2305	38 MoReg 776	
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20 CSR 2245-10.040	Real Estate Appraisers		37 MoReg 2318	38 MoReg 778	
20 CSR 2270-2.060	Missouri Veterinary Medical Board		38 MoReg 368	38 MoReg 856	
20 CSR 2270-3.030	Missouri Veterinary Medical Board		38 MoReg 368	38 MoReg 856	
20 CSR 2270-4.042	Missouri Veterinary Medical Board		38 MoReg 368	38 MoReg 856	

MISSOURI CONSOLIDATED HEALTH CARE PLAN

22 CSR 10-2.010	Health Care Plan	37 MoReg 1701	37 MoReg 1774	38 MoReg 536
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22 CSR 10-2.045	Health Care Plan	37 MoReg 1715	37 MoReg 1794	38 MoReg 540	
22 CSR 10-2.051	Health Care Plan	37 MoReg 1716	37 MoReg 1795	38 MoReg 541	
22 CSR 10-2.052	Health Care Plan	37 MoReg 1717	37 MoReg 1795	38 MoReg 541	
22 CSR 10-2.060	Health Care Plan	37 MoReg 1724	37 MoReg 1808	38 MoReg 546	
22 CSR 10-2.075	Health Care Plan	37 MoReg 1727	37 MoReg 1809	38 MoReg 547	
22 CSR 10-2.091	Health Care Plan	37 MoReg 1732R	37 MoReg 1818R	38 MoReg 548R	
22 CSR 10-2.130	Health Care Plan	37 MoReg 1732	37 MoReg 1818	38 MoReg 548	
22 CSR 10-3.010	Health Care Plan	37 MoReg 1733	37 MoReg 1820	38 MoReg 548	
22 CSR 10-3.045	Health Care Plan	37 MoReg 1743	37 MoReg 1834	38 MoReg 552	
22 CSR 10-3.053	Health Care Plan	37 MoReg 1744	37 MoReg 1835	38 MoReg 553	
22 CSR 10-3.054	Health Care Plan	37 MoReg 1745	37 MoReg 1836	38 MoReg 553	
22 CSR 10-3.055	Health Care Plan	37 MoReg 1746	37 MoReg 1836	38 MoReg 553	
22 CSR 10-3.056	Health Care Plan	37 MoReg 1747	37 MoReg 1837	38 MoReg 553	
22 CSR 10-3.060	Health Care Plan	37 MoReg 1754	37 MoReg 1846	38 MoReg 558	
22 CSR 10-3.070	Health Care Plan	37 MoReg 1755 38 MoReg 504T	37 MoReg 1847	38 MoReg 558	
22 CSR 10-3.075	Health Care Plan	37 MoReg 1756	37 MoReg 1847	38 MoReg 558	
22 CSR 10-3.130	Health Care Plan	37 MoReg 1761	37 MoReg 1856	38 MoReg 559	

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Office of Administration			
Commissioner of Administration			
1 CSR 10-15.010 Cafeteria Plan38 MoReg 5	Jan. 1, 2013	June 29, 2013
Department of Agriculture			
Animal Health			
2 CSR 30-10.010 Inspection of Meat and Poultry . . . . .	.38 MoReg 5	Jan. 1, 2013	June 29, 2013
Department of Public Safety			
Office of the Director			
11 CSR 30-14.010 Approval of Accrediting Organizations for Crime Laboratories . . . . .	.38 MoReg 243	Jan. 18, 2013	July 16, 2013
Department of Revenue			
Director of Revenue			
12 CSR 10-41.010 Annual Adjusted Rate of Interest . . . . .	.37 MoReg 1701	Jan. 1, 2013	June 29, 2013
Elected Officials			
Treasurer			
15 CSR 50-4.030 Missouri MOST 529 Matching Grant Program . . . . .	.38 MoReg 425	Feb. 2, 2013	July 31, 2013
Department of Insurance, Financial Institutions and Professional Registration			
Acupuncturist Advisory Committee			
20 CSR 2015-1.030 Fees . . . . .	.38 MoReg 751	April 18, 2013	Jan. 28, 2014
Committee for Professional Counselors			
20 CSR 2095-1.020 Fees . . . . .	.38 MoReg 751	April 18, 2013	Jan. 28, 2014
Missouri Consolidated Health Care Plan			
Health Care Plan			
22 CSR 10-2.010 Definitions . . . . .	.37 MoReg 1701	Jan. 1, 2013	June 29, 2013
22 CSR 10-2.045 Plan Utilization Review Policy . . . . .	.37 MoReg 1715	Jan. 1, 2013	June 29, 2013
22 CSR 10-2.051 PPO 300 Plan Benefit Provisions and Covered Charges . . . . .	.37 MoReg 1716	Jan. 1, 2013	June 29, 2013
22 CSR 10-2.052 PPO 600 Plan Benefit Provisions and Covered Charges . . . . .	.37 MoReg 1717	Jan. 1, 2013	June 29, 2013
22 CSR 10-2.060 PPO 300 Plan, PPO 600 Plan, and HDHP Limitations . . . . .	.37 MoReg 1724	Jan. 1, 2013	June 29, 2013
22 CSR 10-2.075 Review and Appeals Procedure . . . . .	.37 MoReg 1727	Jan. 1, 2013	June 29, 2013
22 CSR 10-2.091 Wellness Program Coverage, Provisions, and Limitations . . . . .	.37 MoReg 1732	Jan. 1, 2013	June 29, 2013
22 CSR 10-2.130 Additional Plan Options . . . . .	.37 MoReg 1732	Jan. 1, 2013	June 29, 2013
22 CSR 10-3.010 Definitions . . . . .	.37 MoReg 1733	Jan. 1, 2013	June 29, 2013
22 CSR 10-3.045 Plan Utilization Review Policy . . . . .	.37 MoReg 1743	Jan. 1, 2013	June 29, 2013
22 CSR 10-3.053 PPO 1000 Plan Benefit Provisions and Covered Charges . . . . .	.37 MoReg 1744	Jan. 1, 2013	June 29, 2013
22 CSR 10-3.054 PPO 2000 Plan Benefit Provisions and Covered Charges . . . . .	.37 MoReg 1745	Jan. 1, 2013	June 29, 2013
22 CSR 10-3.055 High Deductible Health Plan Benefit Provisions and Covered Charges . . . . .	.37 MoReg 1746	Jan. 1, 2013	June 29, 2013
22 CSR 10-3.056 PPO 600 Plan Benefit Provisions and Covered Charges . . . . .	.37 MoReg 1747	Jan. 1, 2013	June 29, 2013
22 CSR 10-3.060 PPO 600 Plan, PPO 1000 Plan, PPO 2000 Plan, and HDHP Limitations . . . . .	.37 MoReg 1754	Jan. 1, 2013	June 29, 2013
22 CSR 10-3.075 Review and Appeals Procedure . . . . .	.37 MoReg 1756	Jan. 1, 2013	June 29, 2013
22 CSR 10-3.130 Additional Plan Options37 MoReg 1761	Jan. 1, 2013	June 29, 2013

**Executive
Orders****Subject Matter****Filed Date****Publication****2013**

13-10	Declares a state of emergency exists in the state of Missouri and directs that the Missouri State Emergency Operations Plan be activated.	May 31, 2013	Next Issue
13-09	Designates members of the governor's staff to have supervisory authority over certain departments, divisions, and agencies.	May 3, 2013	This Issue
13-08	Activates the state militia in response to severe weather that began on April 16, 2013.	April 19, 2013	38 MoReg 823
13-07	Declares a state of emergency and directs that the Missouri State Emergency Operations Plan be activated due to severe weather that began on April 16, 2013.	April 19, 2013	38 MoReg 821
13-06	Declares a state of emergency and activates the Missouri State Emergency Operations Plan in response to severe weather that began on April 10, 2013.	April 10, 2013	38 MoReg 753
13-05	Declares a state of emergency and directs that the Missouri State Emergency Operations Plan be activated due to severe weather that began on Feb. 20, 2013.	Feb. 21, 2013	38 MoReg 505
13-04	Expresses the commitment of the state of Missouri to the establishment of Western Governors University (WGU) as a non-profit institution of higher education located in Missouri that will provide enhanced access for Missourians to enroll in and complete on-line, competency-based higher education programs. Contemporaneously with this Executive Order, the state of Missouri is entering into a Memorandum of Understanding (MOU) with WGU to further memorialize and establish the partnership between the state of Missouri and WGU.	Feb. 15, 2013	38 MoReg 467
13-03	Orders the transfer of the Division of Energy from the Missouri Department of Natural Resources to the Missouri Department of Economic Development.	Feb. 4, 2013	38 MoReg 465
13-02	Orders the transfer of the post-issuance compliance functions for tax credit and job incentive programs from the Missouri Department of Economic Development to the Missouri Department of Revenue.	Feb. 4, 2013	38 MoReg 463
13-01	Orders the transfer of the Center for Emergency Response and Terrorism from the Department of Health and Senior Services to the Department of Public Safety.	Feb. 4, 2013	38 MoReg 461
2012			
12-12	Reauthorizes the Governor's Committee to End Chronic Homelessness until December 31, 2016.	Dec. 31, 2012	38 MoReg 246
12-11	Advises that state offices located in Cole County will be closed on Monday, January 14, 2013, for the inauguration.	Dec. 20, 2012	38 MoReg 245
12-10	Advises that state offices will be closed on Friday November 23, 2012.	Nov. 2, 2012	37 MoReg 1639
12-09	Extends Executive Order 12-08 in order to extend the deadline for completion of approved projects under the Emergency Cost-Share Program and establishes a Program Audit and Compliance Team to inspect a sample of completed projects. It also extends Executive Order 12-07 until Nov. 15, 2012.	Sept. 10, 2012	37 MoReg 1519
12-08	Authorizes the State Soil and Water Districts Commission to implement an emergency cost-share program to address water challenges to landowners engaged in livestock or crop production due to the current drought. Additionally, it establishes the Agriculture Water Resource Technical Review Team.	July 23, 2012	37 MoReg 1294
12-07	Declares a state of emergency, directs the Missouri State Emergency Operations Plan be activated, and extends Executive Order 12-06 to Oct. 1, 2012, in response to the severe heat, dry conditions, and fire risks affecting the state.	July 23, 2012	37 MoReg 1292
12-06	Activates the Missouri State Emergency Operations Center and directs the State Emergency Management Agency, State Fire Marshall, Adjutant General, and such other agencies to coordinate with local authorities affected by fire danger due to the prolonged period of record heat and low precipitation.	June 29, 2012	37 MoReg 1139
12-05	Extends Executive Orders 11-06, 12-03, 11-07, 11-11, 11-14, and 12-04 until June 1, 2012.	March 13, 2012	37 MoReg 569
12-04	Activates the state militia in response to severe weather that began on February 28, 2012.	Feb. 29, 2012	37 MoReg 503
12-03	Declares a state of emergency and directs that the Missouri State Emergency Operations Plan be activated due to the severe weather that began on February 28, 2012.	Feb. 29, 2012	37 MoReg 501

**Executive
Orders**

Subject Matter

Filed Date

Publication

12-02	Orders the transfer of all authority, powers, and duties of all remaining audit and compliance responsibilities relating to Medicaid Title XIX, SCHIP Title XXI, and Medicaid Waiver programs from the Dept. of Health and Senior Services and the Dept. of Mental Health to the Dept. of Social Services effective Aug. 28, 2012, unless disapproved within sixty days of its submission to the Second Regular Session of the 96th General Assembly.	Jan. 23, 2012	37 MoReg 313
12-01	Designates members of the governor's staff to have supervisory authority over certain departments, divisions, and agencies.	Jan. 23, 2012	37 MoReg 311

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